Accessibility Testing Criteria for Android Applications version 1.2: July 2015



Introduction

Context and Background

This set of Accessibility Testing Criteria is intended to be used to check the accessibility of an application for users with impairments in one or more categories of vision, colour perception, hearing, speech, dexterity, cognition on an Android Device.

The basis for this is built on input from a number of sources including:

- o Mobile Manufacturers Forum GARI website,
- o W3C WCAG 2.0 recommendations on accessibility,
- o Android developer site recommendations on accessibility,
- o AT&T recommendation on website accessibility,
- o AQuA members experience and their accessibility teams.

More details and links to sources are at the end of this document.

Accessibility needs to be designed into applications from the outset, therefore use of this set of Testing Criteria is to be encouraged at the prototype development stage, before delivery of a finished product, and when further updates or amendments are made to the application, to ensure that accessibility is not broken by subsequent changes. As the tests only look at the Application's accessibility, the Application should also be tested against the AQuA Testing Criteria for Android applications (which focuses on the general usability of the Application).

Not all applications will be needed to be tested for all categories, and requirements across the different categories may be contradictory (e.g. enhancing the sound based feedback is great for improving accessibility for usage with limited vision, but may load too much information to audio for usage with limited hearing). Application providers will need to consider how to approach accessibility for different categories of impairment, as appropriate for their application and their audience. Therefore, rather than simply running all tests on any application, it will be necessary to understand which usage conditions are appropriate to an application, and only run those sections of the tests that are relevant to its intended use and audience.

The Application will be considered to have passed the testing if it has passed for one category. All passes will be categorized appropriately. (e.g. Pass for Usage With Limited Vision). Note that a judgement call will need to be made on whether to test for usage with a particular limitation, i.e. it may not always be appropriate for a sound-based application to be tested for usage with limited hearing — although, conversely, users with limited hearing may still be able to enjoy part of the frequency range of a music player application.

General points to note

Applications intended to meet the needs of users with specific impairments should not be developed in isolation from the users they intend to support; rather, wherever possible the developer should maintain contact with appropriate organizations or communities, and should seek to involve representatives in design and testing.

These tests are written so they can be performed by a tester without impairments. However, we would advise that, if possible, there should be at least one cycle of testing carried out by people with the specific impairment or impairments which the tests address.

When using this set of Testing Criteria, please bear in mind that it is not designed purely as a set of prescriptive step-by-step tests. Rather, it is a guide to questioning assumptions that may be made in the design and development stages, and of finding ways to check that those assumptions do not reduce usability. Such a process normally enhances usability.

No specific distinction is made between accessibility features provided by an application and those provided by the device's operating system, as the focus is on the end user experience as a whole, which should ideally be seamless and consistent regardless of the source of the function. Within that context, it should be borne in mind that these tests are only intended for evaluating the behavior of applications or an update to them.

The TalkBack accessibility service will need to be installed and enabled on the Android Device. This is usually pre-installed on devices with Android 4.0 or higher, where it can be found as an option under Accessibility in the device Settings menu.

For devices without the option, it can be installed from Google Play (https://play.google.com/store/apps/details?id=com.google.android.marvin.talkback).

General advice on Android accessibility can be found at the Android Accessibility Help pages - https://support.google.com/accessibility/android#topic=6007234.

Help on using TalkBack can be found at the Enable TalkBack page - https://support.google.com/accessibility/android/answer/6007100?hl=en-GB&ref topic=3529932.

It is recommended that the tester goes through the tutorial for TalkBack if they are unfamiliar with it. Injudicious use can render the phone hard to use as familiar touch controls no longer function as expected – the tester should particularly note that single-tap only selects an item while TalkBack is in use, and double-tap is always required to action a control or item.

Greg Jotham Chief Quality Auditor, AQuA

Structure of the Criteria

The accessibility tests fall into basic categories (with a few sub-categories) for users with restrictions in that area.

The categories or sub-categories are set out in this document as sections of tests. The Application may be tested against each section, or against several sections below:

- **Usage with limited vision** (includes *usage without vision* for the purposes of this document)
- Usage without perception of colour / minimising photosensitive seizure triggers
- **Usage with limited hearing** (includes *usage without hearing* for the purposes of this document)
- Usage without vocal capability
- **Usage with limited manipulation or strength** (includes *usage with limited reach* for the purposes of this document)
- Usage with limited cognition

Each category is broken down into a set of functional areas:

- Navigation
- Control (execution of actions)
- Feedback
- Display
- Adjustments / Settings
- External devices

External devices include but are not limited to:

- Keypads
- D-pads
- Joystick
- Braille displays
- Induction loop
- Hearing aids
- Headsets
- Switch control
- Sip and puff control systems
- Location beacons

Critical and Warning levels of Tests

We recognise that many of the tests that are performed do not produce a binary result. They are often subjective leaving the interpretation to the tester. It is unfair therefore to fail an application for one minor error that may be down to a tester's opinion.

To account for this, the individual tests are each marked as either Critical or Warning.

Critical Level Tests

As the name suggests, a *Critical level* test must be passed. If the Application fails the test then the Application has an overall fail.

Warning Level Tests

For a test which is considered *Warning level*, we have allowed for four different results; *pass, annoying, difficult* and *impossible*.

These warning levels are described as follows;

Pass = the Application has passed the test. There are no issues

Annoying = a minor error has occurred with the Application - e.g. one or two typos that would make the Application not perfect but still very useable

Difficult = a more serious issue has occurred with the Application e.g. multiple typos making the Application difficult to use but not impossible

Impossible = a very serious issue has occurred with the Application - the errors are so bad as to make the Application unusable.

Once all appropriate tests have been carried out, points should be attributed according to the following scale.

Warning levels:

Annoying = 1 points Difficult = 2 points Impossible = 4 points

For the Application to pass, the errors must not add up to more than 3 points. 4 points or more is a failure.

Severity of error	Warning test type	Critical test type
No error	0 points	0 points
Annoying error	1 point	
Difficult error	2 points	
Impossible error	4 points	
Fail test		5 points

(As an example, the Application could have 3 *annoying* results, or 1 *difficult* and 1 *annoying* and still pass.)

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Testing Criteria

1. Usage with limited vision

1.1. Navigation

1.1.1. Install

Test ID	Test Title	Critical	
1.1.1	Install		
Test Desci	ription		
	eck that the Application installs with the cor	rect information for	
	kBack and screen readers.		
Required f			
	applications.		
Testing No			
	at the Android accessibility service 'TalkBack' is	installed on the device, and	
	hen testing compatibility with TalkBack.	adan if this is able to used	
•	npting should also be checked with a screen rea		
	prompts, and during screen reader testing Talk cifically required by the screen reader.	RBack snould be turned off	
	t speech output pitch and speed settings, where	o provided are set to values	
	ce optimum results for the tester.	e provided, are set to values	
linat produc	of aparticular rotation and toolor.		
Testing St	eps		
_	Install the Application.		
2.	Navigate the focus to the Application icon on the	ne screen.	
3. Listen to the name of the Application.			
RESULT:			
The Application name should be clearly and understandably spoken aloud and			
should be unambiguous in the target language or languages of the device.			
Result of Test			
	□ EAU		
□ PASS			

1.1.2. Audio prompts for all content

Test ID	Test Title	Critical
1.1.2	Audio prompts for all content	
Test Desci	•	
	ify that user interface controls that provide	
	t) or allow user action, have clear and accura	
	en TalkBack is enabled or a screen reader u	sed, and controls are
Required f	used.	
•	applications.	
Testing No		
•	nt the Android accessibility service 'TalkBack' is	installed on the device, and
	hen testing compatibility with TalkBack.	metamea en tre aerree, ana
	npting should also be checked with a screen rea	ader where practical, and
during scre	een reader testing TalkBack should be turned o	ff unless specifically required
by the scre		
	at speech output pitch and speed settings, when	e provided, are set to values
that produ	ce optimum results for the tester.	
Tooting Ct	one	
Testing Sto	eps Launch the Application.	
	Use directional controls to move the focus betw	veen Application layout
۷.	elements.	veen Application layout
3.	Check that all controls, images, text and other	elements that present
	information visually have meaningful audio des	
	same amount of information that is available vis	sually.
	Check that all labels and tags have meaningful	
5.	Check that non-informational elements (e.g. UI	decoration) do not generate
	audio feedback, as this could be confusing.	
0.5	SULT:	
		given which enables
A single audio description of displayed elements is given, which enables understanding of the Application without use of the visual interface.		
unc	reference to the Application without doe of the	viodal interface.
Result of 7	est	
	☐ FAIL	

1.2. Control (execution of actions)

1.2.1. Explore By Touch			
Test ID Test Title	Critical		
1.2.1 Explore By Touch – Android			
Accessibility			
Test Description			
Verify that Explore By Touch prompts and con	trols are correctly		
presented and actioned.			
Required for:			
All applications.			
Testing Note			
Ensure that the Android accessibility service 'TalkBack' is	s installed on the device, and		
enabled.			
Ensure that Explore By Touch is enabled in TalkBack set			
If the Application is intended to be used with TalkBack an	id a screen reader in		
combination, this use case should also be checked.	re previded are set to values		
Ensure that speech output pitch and speed settings, when that produce optimum results for the tester.	re provided, are set to values		
inai produce opiimum results for the tester.			
Testing Steps			
1. Launch the Application.			
Move a finger all over the screen to hear audio	descriptions that identify		
screen elements and controls.	, and a second and a second a		
3. Check that tags and labels have meaningful na	ames.		
4. Double-tap to open applications, menus and o			
Navigate within the Application to ensure that	all navigation prompts and		
selections are valid, menu structures are corre	ectly presented and usable,		
and exiting the Application or putting it into bac	ckground and restoring it can		
still be properly executed.			
6. If Help information is provided, access it and c	heck that the content is		
presented correctly through audio.			
7. Swipe with two fingers to change screens and			
8. Check that application-specific gestures require			
scrolling continue to work properly after TalkBa			
By Touch are enabled, or that an alternative in	iterrace for these functions is		
provided. 9. Where speech input and control are provided,	check that those operate		
correctly and the level of mis-recognition of inp			
be found in general use of speech recognition			
(e.g. in existing facilities like Google Search or			
(o.g. in oxioting radiities into coogie obtain of	· · · · · · · · · · · · · · · · · · ·		
RESULT:			
All controls should be correctly identified, and it sh	nould be possible for a user		
to navigate and use the Application without refere			
Speech control and input where provided should be sufficiently functional for			
normal usage.	<u> </u>		
Result of Test			

☐ PASS ☐ FAIL

1.2.2. Gesture control interaction Test ID Test Title

Test ID	Test Title	Critical
1.2.2	Gesture control interaction	
Test Descr	iption	
Act	ions controlled by gestures should be usab	le when TalkBack is
ena	bled.	
Required for		
All	applications.	
Testing No		
Ensure tha enabled.	t the Android accessibility service 'TalkBack' is	installed on the device, and
 Launch the Application. Explore all the functionality of the Application. Check that application-specific gestures, such as zooming images, scrolling lists, swiping between pages or navigating carousel controls all continue to work when TalkBack is enabled. If these gestures do not function, then an alternative interface for these actions must be provided. 		
RESULT: All actions normally controlled by gestures should still be provided by a suitable interface when TalkBack is enabled. Result of Test		
□ PASS □ FAIL		

1.3. Feedback

1.3.1. Feedback - sufficient

Test ID	Test Title	Critical	
1.3.1	Feedback - sufficient		
Test Desc	•		
	rify that audio / haptic feedback is sufficient	for usage conditions.	
Required			
	applications.		
Testing No			
	at the Android accessibility service 'TalkBack' is	installed on the device, and	
	then testing compatibility with TalkBack.	aday if practical and duving	
•	mpting should also be checked with a screen rea		
the screen	nder testing, TalkBack should be turned off unles orgador	ss specifically required by	
une screen	reader.		
Testing St	ens		
_	Launch the Application.		
	Explore navigation and use of the Application's	functions.	
	Check that auditory prompts are provided before		
	Check that haptic and audio confirmation of a function being used is available.		
5.	Check that spinning wheels, progress bars and		
	have a suitably informative non-visual equivale		
	Check that dialog boxes have full audio description.		
7.	Check that when it is possible to scroll to data a		
	displayed screen, rising or falling tones are use	d to give feedback on	
	current position when scrolling		
PE	RESULT:		
	audio / haptic feedback should be sufficiently in	formative, and should be	
adequate to make the Application usable without reference to the visual			
content.			
Result of Test			
☐ PASS ☐ FAIL			

1.3.2. Feedback – audio elements differentiated

Test ID	Test Title	Critical	
1.3.2	Feedback – audio elements differentiated		
Test Descr	iption		
Ver	ify that audio feedback of multiple elements	is not confusingly	
sim	ilar.		
Required for			
All	applications.		
Testing No	te		
	t the Android accessibility service 'TalkBack' is	installed on the device, and	
	nen testing compatibility with TalkBack.		
	npting should also be checked with a screen rea		
	ing TalkBack should be turned off unless specit	fically required by the screen	
reader.			
Testing Ste	one		
	aunch the Application.		
	explore any elements that present elements in g	rouned areas, such as lists	
	ontact details.	rouped arous, such as nots	
	Check that closely related elements are given su	ufficiently different audio	
	cription such that it is possible to easily distingu		
	rence to visual content. E.g. in a contacts list e		
	phone, email etc should not be simply labeled v		
	ntically for each element.		
	RESULT:		
Audio feedback should be sufficiently differentiated that all elements within			
groups and list can be identified correctly without reference to visual content.			
Result of Test			
☐ PASS	☐ PASS ☐ FAIL		

1.3.3. Feedback – audio prompt overloading / underloading

Test ID	Test Title	Critical
1.3.3	Feedback – audio prompt overloading /	Offical
1.5.5	underloading	
Test Desci	<u> </u>	
	ify that audio prompting is neither too little	nor too great for clarity.
Required f		nor too growt for claimly.
	applications.	
Testing No	ote	
Ensure tha	nt the Android accessibility service 'TalkBack' is	installed on the device, and
	hen testing compatibility with TalkBack.	
	npting should also be checked with a screen re	•
	ting TalkBack should be turned off unless speci	fically required by the screen
reader.		
Testing St	ans	
	aunch the Application.	
	Explore grouped controls in each part of the App	olication
	Check that closely related controls provide an a	
	ormation that enables users to understand and	
Too	much or too little prompting can make it difficu	Ilt to understand and use a
	itrol.	
	SULT:	
The level of audio prompting should be sufficient for easy use of all controls,		
but not so great that confusion can arise through inability to retain / recall		
multiple complex prompts.		
Result of Test		
	□ EAU	
	∐ FAIL	

1.4. Display

1.4.1. Display element sizing / portrayal

Test ID Test Title

Test ID	Test Title	Critical
1.4.1	Display element sizing / portrayal	
Test Descr	•	
	ify that display elements are correctly sized	
	w users with limited vision to distinguish be	etween them.
Required for		
	applications.	
Testing No		
	afb.org/info/living-with-vision-loss/reading-and-	
	35 provides some context as to what is accepted	•
	it should be possible to make a judgement abo	out the displayed size on
electronic (device screens.	
 Launch the Application. Examine all display elements. Check that these elements are of sufficient size, spacing and distinctive design as to allow users with limited vision to distinguish between them, understand their purpose, and operate them in a touchscreen environment. RESULT: All visual elements should be sized, spaced and designed so that they are		
practical for use with restricted vision.		
Result of Test		
☐ PASS	☐ FAIL	

1.4.2. Display orientation

Test ID	Test Title	Critical	
1.4.2	Display orientation		
Test Descr	iption		
	Application must be usable in supported of	rientations and make	
limi	tations clear before use.		
Required for	or:		
All	applications.		
Testing No	te		
	eps Launch the Application. If the Application is restricted to a single orienta	ation (portrait / landscape) of	
	the device, it should give an audio announcement of this at launch. It is permissible for there to be a user setting to turn this announcement off, as long as it is on by default at installation.		
	Check that switching between orientations does elements to fail test 1.4.1 (Display element sizir		
	Check that audio prompts continue to function orientation.	correctly after change of	
The	SULT: Application should remain usable regardless of ice reorientation.	of any changes caused by	
Result of T	est		
☐ PASS	☐ FAIL		

1.5. Adjustments / Settings

1.5.1. Contrast Control

Test ID	Test Title	Critical	
1.5.1	Contrast Control		
Test Desci			
	e Application should offer different display c	ontrast levels.	
Required for			
	applications.		
Testing No			
	is test, the Application should offer a minimum of		
	d and text / elements of 4.5:1 to meet the WCA		
recommen	<u>www.w3.org/TR/WCAG20-TECHS/G18.html</u> for	details of the W3C	
	dations. rposes of this test, it is not necessary to formally	y maggira the luminance of	
	It will be sufficient if the contrast appears, when		
	he 4.5:1 samples provided at <u>http://trace.wisc.e</u>		
	examples in the section headed "Text Samples		
	atios" may provide the easiest comparison for j		
 Launch the Application. If the Application does not offer a high-contrast display by default, open its Settings and confirm that there is at least one high-contrast display option. Check that the either the provided default or the high-contrast display option provides a contrast level that meets the recommended standard. 			
The sign	RESULT: The Application should offer a high-contrast display option that gives a significant contrast increase when used. Result of Test		
☐ PASS ☐ FAIL			

1.5.2. V	olume control		
Test ID	Test Title	Critical	
1.5.2	Volume control		
Test Desc			
	idio prompt volume should be sufficient and	remain responsive to	
	vice controls.		
Required			
	l applications.		
Testing N			
	at the Android accessibility service 'TalkBack' is	installed on the device, and	
	when testing compatibility with TalkBack.		
	mpting should also be checked with a screen rea		
reader tes reader.	sting TalkBack should be turned off unless speci	ncally required by the screen	
	lication provides audio prompts without TalkBacı	k the test should be	
	d twice, once with TalkBack on, and once with it		
periorne	t twice, once with raikback on, and once with it	on.	
Testing S	tens		
_	Launch the Application.		
	 Examine the Application's Settings and audio controls for evidence of any option to boost the maximum volume above the maximum normally offered, e.g. for speaker announcement of prompts in noisy situations. If such an option exists, the test should be performed once with it off, and 		
3.	once with it at the maximum setting. Check that it is possible to achieve an adequat to be clearly heard. Volume level without any b sufficient for normal usage indoors, but where to normally be expected to be used outdoors at level usage. If the Application is expressly designed headphones and makes this clear to the user, a volume will be sufficient.	oost should be at least the Application would east part of the time, the should be sufficient for this for use only with	
4.	Check that the volume delivered responds pror	mptly to the operation of the	
	device volume keys.		
5.	Where a boosted volume is such that there is a the device is held close to the ear, check that "device Volume Down key can reduce the volum second or less.	press and hold" of the	

Audio prompt volume should be sufficient for the intended use and should respond quickly to device controls.

Result of Test

☐ PASS

RESULT:

1.5.3. Expanded font sizes

Test ID	Test Title	Critical
1.5.3	Expanded font sizes	
Test Desc	•	
	nere large fonts are used, all elements should	d be clearly presented.
Required i		
	applications.	
Testing No		
	largest font size / clearest font face available in	the device's Settings –
Display –	Screen Display menu for this test.	
 Launch the Application. Open the Application's Settings and identify whether larger fonts are offered. If they are, select the largest one available. If not, continue with the default font provided by the device / application. Check that the largest font available in the App is suitable for users with visual impairment. Use of screen zoom is permissible so long as this does not render the Application difficult to use correctly. Check that when an extra large font is used, that neither individual characters nor blocks of text are misaligned, distorted, overlaid or otherwise presented unreadably. 		
RESULT: The Application should be able to correctly present text in a font size suitable for users with visual impairment.		
Result of Test		
□ PASS □ FAIL		

1.6. External Devices

1.6.1. Alert on connection / disconnection Test ID Test Title

restro	restriue	Critical
1.6.1	Alert on connection / disconnection	
Test Descr		
	nnection or disconnection of external device	es should generate an
	ormative alert.	
Required for		
	applications.	
Testing No		
1. Ensure and en	that the Android accessibility service 'TalkBac abled.	k' is installed on the device,
2. If a suff	ficiently informative alert is generated by the de	evice OS rather than the
	ation, this will be equally acceptable and constit	
Testing Ste		
	Launch the Application.	
	Connect, and then disconnect any external de-	
	the Application (e.g. D-pad, joystick, switch con	ntrol, Braille display, puff and
	sip controls).	
	Check that a clearly understandable confirmati	
	disconnection is given, whether by spoken aud	·
	identify the two states, or other feedback (e.g.	
	confirmations are not easily confused with other	
	during use of the device in general, and the Ap	pplication in particular.
RESULT:		
Confirmation of the connection / disconnection of external devices should		
leave the user in no doubt as to the status of each device, without needing to		
reference any visual confirmations that may be produced.		
Result of Test		
TOOGR OF TOOL		
PASS	☐ FAIL	

1.6.2. Navigation with external directional control device

Test ID	Test Title	Critical	
1.6.2	Audio prompts with external directional		
	control device		
Test Desci			
	dio prompts should be satisfactory when us		
	ntrol devices instead of touchscreen control		
Required f			
	applications.		
Testing No		installed on the device and	
enabled.	t the Android accessibility service 'TalkBack' is	installed on the device, and	
If the Appli	cation provides audio prompts without TalkBac	k, the test should be	
performed	twice, once with TalkBack on, and once with it	off.	
	eps 1 & 2 can be reversed if the Application is o		
specific de	vice that has to be connected while it is running	y.	
Testing Ste	ens		
_	Connect an external directional control device :	such as a D-pad or iovstick.	
	Launch the Application.	each ac a 2 pages, joyeness	
	Navigate through the Application's functions ar	nd menus, interact with	
	controls, and attempt to understand the Applica		
4.			
	Application while using the external directional	control device are sufficient	
	for the Application to be usable.		
RESULT:			
When using an external directional control device, audio prompts and			
confirmations should be sufficient that the Application can be used without			
reference to the visual context for navigation.			
Result of Test			
DACC			
☐ PASS ☐ FAIL			

1.6.3. Operation with external switch control

1.6.3. Operation with external switch control		
Test ID	Test Title	Critical
1.6.3	Audio prompts with external switch	
	control	
Test Desc		
	dio prompts should be satisfactory when us	ing external switch
	ntrol instead of touchscreen control.	
Required		
	applications.	
Testing No		
Ensure that enabled.	at the Android accessibility service 'TalkBack' is	installed on the device, and
	lication provides audio prompts without TalkBacl	· ·
•	I twice, once with TalkBack on, and once with it	
	eps 1 & 2 can be reversed if the Application is d	•
specific de	evice that has to be connected while it is running	1.
Testing St	reps	
1.	Connect an external switch control.	
2.	Launch the Application.	
3. Navigate through the Application's functions and menus, interact with		
controls, and attempt to understand the Application's layout and operation.		
4. Check that the audio prompts and confirmations generated by the		
Application while using the external switch control are sufficient for the		
Application to be usable.		
DECLII T.		
RESULT:		
When using an external switch control, audio prompts and confirmations should be sufficient that the Application can be used without reference to the		
visual context for the function or functions that the switch control provides.		
Result of Test		
☐ PASS ☐ FAIL		

1.6.4. Interaction with location beacons

Test ID	Test Title	Critical	
1.6.4	Interaction with location beacons		
Test Desc			
	n-visual prompts, messages or tones should		
	d in a timely manner when interacting with lo	cation beacons.	
Required f	or: applications.		
Testing No			
	nte at the Android accessibility service 'TalkBack' is	installed on the device, and	
	ication provides audio prompts without TalkBack twice, once with TalkBack on, and once with it		
1.	Testing Steps 1. Launch the Application. 2. Ensure the Application is correctly set up to make connection with external		
	beacons, whether by Bluetooth or other means, and prompts are set to be triggered by the interaction.		
3.	 Check that the non-visual prompts, messages or tones generated by the Application while interacting with location beacons are sufficient for the Application to be usable. 		
4.	 Check that information is never absent or presented incorrectly in any way that would be likely to put the user at risk. 		
5.	Check that disconnection or exiting from the area of beacon coverage is unambiguously signaled to the user without excessive delay.		
RESULT:			
When interacting with external beacons, non-visual prompts and confirmations should be sufficient that the Application can be used safely and without reference to any visual context.			
Result of Test			
☐ PASS ☐ FAIL			

2. Usage without perception of colour / Minimising photosensitive seizure triggers

2.1. Display

2.1.1. Adjust colour scheme

Test ID Test Title

Test ID	Test Title	Critical	
2.1.1	Adjust colour scheme		
Test Descr	iption		
Dis	play options should be offered to suit differi	ing colour perception.	
Required for	or:		
All	applications.		
Testing No	te		
Testing Ste	•		
1.	Launch the Application.		
2.	Open the available Settings.		
3.	3. Check that a range of display schemes are offered that will suit users with		
	differing colour perception, e.g. red/green distinction.		
55	D=0.44 =		
	SULT:	9. 1.	
	Application should offer display schemes that		
differing colour perception, and which will render all displayed elements in			
acceptably distinct shades.			
Result of Test			
☐ PASS ☐ FAIL			

2.1.2. Monochrome presentation

Test ID Test Title

restid	rest ritle	Critical
2.1.2	Monochrome presentation	
Test Descr	•	
	play options should include a monochrome	format.
Required for		
	applications.	
Testing No		
	hen using monochrome formats care should b	
_	geometric patterns, which can act as a trigger	for photosensitive epilepsy
(see also ti	he test covering these issues).	
 Testing Steps Launch the Application. Open the available Settings. Check that a monochrome display option is available, and the contrast levels chosen are suitable for users with all kinds of colour perception limitation. 		
RESULT: The Application should offer a monochrome display option that delivers acceptable levels of contrast for users with all types of colour perception limitation.		
Result of Test		
☐ PASS ☐ FAIL		

2.1.3. Photosensitive seizure triggers

Test ID Test Title

Test ID	Test Title	Critical	
2.1.3	Photosensitive seizure triggers		
Test Descr	iption		
	play schemes and content should avoid usi	ng known photosensitive	
	zure triggers.		
Required for			
	applications.		
Testing No			
	multiple display schemes are available in the A	pplication, presentation	
	be checked in each scheme.		
	triggers include (but are not limited to) lights or	•	
	n 3 Hz (flashes per second) and 60 Hz, or cont	0 0	
_	tric patterns, such as black/white stripes or ched ded video should not include multiple flash pho		
3. EITIDEU	ueu viueo snoulu noi include maliipie nasti pno	lograpriy.	
Testing Ste	ens		
•	Launch the Application.		
	Check all displayed pages and content for photo	osensitive seizure triggers.	
	2. Onesit all displayed pages and sometime of photosonistive solizare triggers.		
RE	RESULT:		
Display schemes and content should avoid using known photosensitive			
seizure triggers.			
Result of Test			
☐ PASS	☐ PASS ☐ FAIL		

2.2. Feedback

2.2.1. Feedback elements – colour schemes Test ID Test Title

l est ID	Test Title	Critical
2.2.1	Feedback elements – colour schemes	
Test Descr	•	
	our choices for all displayed feedback elem	ents should be suitable
	users with colour perception limitations.	
Required for		
	applications.	
Testing No		
	tiple colour display schemes are available in the	• •
of feedbac	k elements should be checked in each scheme.	
 Launch the Application. Check the presentation of feedback elements such as spinning wheels, progress bars, shadows, error messages and action confirmations. Check that colour is never used alone to convey information (for example, using red text to show a message is an error). Text or icons must convey the full message content without needing perception of a particular colour. 		
RESULT: Available display colour schemes for feedback elements should cater for the needs of users with all common limitations of colour perception. Result of Test		
☐ PASS ☐ FAIL		

2.3. Adjustments / Settings

Not Applicable

3. Usage with limited hearing

3.1. Navigation

3.1.1. Visual navigation

Test ID Test Title

Test ID	Test Title	Critical	
3.1.1	Visual navigation		
Test Descr	ription		
Nav	rigation within the Application should not re	ly on audio prompts.	
Required for	or:		
All	applications.		
Testing No			
Before per	forming this test, set the device to silent mode;	or if this setting is not	
available, ı	mute all sounds and notifications within the Sett	ings menu.	
Testing Ste	•		
	Launch the Application.		
	Explore the Settings and functionality of the Ap		
3.	Check that it is possible to navigate all element	s of the Application without	
	use of audio prompts or confirmations.		
D.E.			
	RESULT:		
Visual and tactile (e.g. haptic) feedback within the Application should be			
sufficient to enable navigation of all features without use of audio responses.			
Result of Test			
□ BAGG □ FAU			
☐ PASS ☐ FAIL			

3.2. Control (execution of actions)

3.2.1. Visual notification of actions Test ID Test Title

Test ID	Test Title	Critical
3.2.1	Visual notification of actions	
Test Desci		
Act	ions within the Application should be notific	ed visually.
Required f	or:	
All	applications.	
Testing No	ote	
	forming this test, set the device to silent mode;	
	mute all sounds and notifications within the Sett	
	set and the Application both support multi-appli	
	plication open at the same time as the Applicati	•
whether or	nscreen messages appear within the Applicatior	n's display area.
 Testing Steps Launch the Application. Explore the functionality of the Application. Check that all pending and completed actions are notified visually by onscreen messages within the Application display area. 		
RESULT: All actions within the Application should be notified visually and within the screen area used for display of the Application.		
Result of Test		
☐ PASS	☐ FAIL	

3.3. Feedback

3.3.1. No audio-only feedback

Test ID Test Title

700172	No. 1 Co. II co. I	Simour	
3.3.1	No audio-only feedback		
Test Descr	iption		
The	Application should not rely on audio-only f	eedback at any point.	
Required fo	or:		
All	applications.		
Testing No	te		
Before test	ing, ensure that the device is not set to silent m	ode, and that sounds and	
audible not	ifications are turned on in the Settings menu (b	oth in the device and	
	where present), so that audible and visual feed		
1-1-	,,	,	
Testing Ste	PDS		
•	Launch the Application.		
	Explore the functions of the Application.		
	Check that visual feedback is always offered at	any time that audio	
	feedback is present.		
	recuback is present.		
RESULT:			
The Application should always present the user with visual equivalents to any			
audio feedback given.			
Result of Test			
result of Test			
□ DACC	□ FAU		
	☐ FAIL		

USAGE WITH LIMITED HEARING

3.3.2. Visual alerts

3.3.2. V	isual alerts	
Test ID	Test Title	Critical
3.3.2	Visual alerts	
Test Desc	ription	
All	alerts issued by the Application should have	e a visual component.
Required	for:	
All	applications.	
Testing No	ote	
For this test, alerts are treated as being different from feedback in that they are either unanticipated or asynchronous – that is, they may occur an indeterminate amount of time after the action that will eventually trigger them. Before testing, ensure that the device is not set to silent mode, and that sounds and audible notifications are turned on in Settings, so that audible and visual alerts can be compared.		
 Launch the Application. Explore the functionality of the Application. Check that all generated alerts have a sufficiently informative visual component so that they can be properly understood without reference to the audible component. 		

RESULT:

All alerts issued by the Application should be capable of drawing attention to themselves and being understood by the user, without that user having reference to any audio component of the alert.

reference to any audio component of the alert.		
Result of Test		
riodan or root		
PASS	FAIL	
_	_	

3.4. Display

3.4.1. Notification bar Test ID Test Title

l est ID	Test Title	Critical	
3.4.1	Notification bar		
Test Desci	ription		
The	Notification Bar should be used for persist	ent feedback or alerts.	
Required f	or:		
All	applications.		
Testing No	ote		
Before performing this test, set the device to silent mode; or if this setting is not available, mute all sounds and notifications within the Settings menu.			
Testing St	eps		
_	Launch the Application.		
	Explore the functionality of the Application.		
	Check that all feedback and alerts which should	•	
	dismiss make proper use of notifications posted		
Application should never rely solely on constant or repeating audio alarms			
to solicit action from the user.			
RESULT:			
All persistent feedback or alarms / alerts that require user dismissal should			
have a visual component posted to the Notification Bar.			
Result of Test			
1.00007			
☐ PASS	☐ PASS ☐ FAIL		
-			

3.5. Adjustments / Settings

3.5.1. Replacement of audible alerts with visual ones

Test ID Test Title

Test ID	Test Title	Critical	
3.5.1	Replacement of audible alerts with visual		
	ones		
Test Descr	iption		
The	Application should offer a simple one-step	option for replacing all	
aud	lio alerts with visual ones.		
Required for	or:		
All	applications.		
Testing No	te		
1. Before	testing, ensure that the device is not set to siler	nt mode, and that sounds	
	dible notifications are turned on in the device Se	•	
	rd alerts and notifications generated outside the	e Application are not	
include	d in the scope of this test.		
Testing Ste	•		
	Launch the Application.		
	Check that the Application's Settings menu or o	•	
	easily-understood single-step process to replace	e all audio alerts with visual	
	ones.	P C I	
	3. Check that when this option is selected, the Application does not generate		
	any audible alerts.		
חר	DEOU! T		
RESULT:			
The Application should offer a simple way for all of its audio alerts to be			
replaced with visual ones, so that a user with hearing limitation does not			
inadvertently generate audio alerts in situations where they may be unwelcome or inconvenient.			
Result of Test			
Nesult Ul Test			
	☐ PASS ☐ FAIL		
L	☐ I AIL		

3.6. External Devices

3.6.1. Support for external volume control with hearing assistance devices

Test ID Test Title Critical

Test ID	Test Title	Critical	
3.6.1	Support for external volume control with		
	hearing assistance devices		
Test Desc	ription		
Th	e Application should respect and not counte	ract the operation of	
ex	ternal volume controls used with hearing ass	sistance devices.	
Required	for:		
All	applications.		
Testing No	ote		
Testing St	^l eps		
1.	Launch the Application.		
2.	Use the functionality of the Application whilst m	aking adjustments of	
	volume in both the Application and the external	device.	
3.	The Application must never interact uncontrolla	bly with the external device	
	as far as volume control is concerned, and whe	ere the Application is	
	intended to interact with volume settings on an	external device it should	
	always respond to them correctly and obey any	mute / un-mute command	
	when issued.		
RESULT:			
The Application should interact correctly with any volume control used on an			
external hearing assistance device (e.g. amplifier, filter or hearing aid).			
Result of Test			
☐ PASS	☐ PASS ☐ FAIL		

3.6.2. Detection of external hearing aids and visual notification

Test Description The Application should correctly detect and connect to external hearing aids and assistance devices, and provide visual confirmation of this.	Test ID	Test Title	Critical	
Test Description The Application should correctly detect and connect to external hearing aids and assistance devices, and provide visual confirmation of this. Required for: All applications. Testing Note Set the device into silent mode, or if this is not available, turn off or mute sounds and audio notifications in the device's Settings. Testing Steps 1. Launch the Application. 2. Bring a suitable external device (hearing aid, microphone pickup or other hearing assistance device with which the Application is designed to work) within range, and set it into a state suitable for connecting with the Application. 3. Set the Application into the appropriate state for connecting to an external device if this is not done automatically at startup. 4. Check that the Application correctly detects and connects to the assistance device, and that detection and connection are confirmed visually, or by haptic feedback if this is sufficiently distinct from other feedback as to be completely unambiguous. 5. Check the handling of error situations during connection by turning the external device off during connection, and likewise by taking it out of range in the same state, and confirm that the feedback (whether visual or haptic) is clear and unambiguous and does not need an audio component to be understood. RESULT: Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback.	3.6.2			
The Application should correctly detect and connect to external hearing aids and assistance devices, and provide visual confirmation of this. Required for: All applications. Testing Note Set the device into silent mode, or if this is not available, turn off or mute sounds and audio notifications in the device's Settings. Testing Steps 1. Launch the Application. 2. Bring a suitable external device (hearing aid, microphone pickup or other hearing assistance device with which the Application is designed to work) within range, and set it into a state suitable for connecting with the Application. 3. Set the Application into the appropriate state for connecting to an external device if this is not done automatically at startup. 4. Check that the Application correctly detects and connects to the assistance device, and that detection and connection are confirmed visually, or by haptic feedback if this is sufficiently distinct from other feedback as to be completely unambiguous. 5. Check the handling of error situations during connection by turning the external device off during connection, and likewise by taking it out of range in the same state, and confirm that the feedback (whether visual or haptic) is clear and unambiguous and does not need an audio component to be understood. RESULT: Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback.	Toot Door			
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Required for: All applications. Testing Note Set the device into silent mode, or if this is not available, turn off or mute sounds and audio notifications in the device's Settings. Testing Steps 1. Launch the Application. 2. Bring a suitable external device (hearing aid, microphone pickup or other hearing assistance device with which the Application is designed to work) within range, and set it into a state suitable for connecting with the Application. 3. Set the Application into the appropriate state for connecting to an external device if this is not done automatically at startup. 4. Check that the Application correctly detects and connects to the assistance device, and that detection and connection are confirmed visually, or by haptic feedback if this is sufficiently distinct from other feedback as to be completely unambiguous. 5. Check the handling of error situations during connection by turning the external device off during connection, and likewise by taking it out of range in the same state, and confirm that the feedback (whether visual or haptic) is clear and unambiguous and does not need an audio component to be understood. RESULT: Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback.		• •		
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Set the device into silent mode, or if this is not available, turn off or mute sounds and audio notifications in the device's Settings. Testing Steps 1. Launch the Application. 2. Bring a suitable external device (hearing aid, microphone pickup or other hearing assistance device with which the Application is designed to work) within range, and set it into a state suitable for connecting with the Application. 3. Set the Application into the appropriate state for connecting to an external device if this is not done automatically at startup. 4. Check that the Application correctly detects and connects to the assistance device, and that detection and connection are confirmed visually, or by haptic feedback if this is sufficiently distinct from other feedback as to be completely unambiguous. 5. Check the handling of error situations during connection by turning the external device off during connection, and likewise by taking it out of range in the same state, and confirm that the feedback (whether visual or haptic) is clear and unambiguous and does not need an audio component to be understood. RESULT: Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback. Result of Test				
 Testing Steps Launch the Application. Bring a suitable external device (hearing aid, microphone pickup or other hearing assistance device with which the Application is designed to work) within range, and set it into a state suitable for connecting with the Application. Set the Application into the appropriate state for connecting to an external device if this is not done automatically at startup. Check that the Application correctly detects and connects to the assistance device, and that detection and connection are confirmed visually, or by haptic feedback if this is sufficiently distinct from other feedback as to be completely unambiguous. Check the handling of error situations during connection by turning the external device off during connection, and likewise by taking it out of range in the same state, and confirm that the feedback (whether visual or haptic) is clear and unambiguous and does not need an audio component to be understood. RESULT: Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback. 	Testing No	ote		
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 Launch the Application. Bring a suitable external device (hearing aid, microphone pickup or other hearing assistance device with which the Application is designed to work) within range, and set it into a state suitable for connecting with the Application. Set the Application into the appropriate state for connecting to an external device if this is not done automatically at startup. Check that the Application correctly detects and connects to the assistance device, and that detection and connection are confirmed visually, or by haptic feedback if this is sufficiently distinct from other feedback as to be completely unambiguous. Check the handling of error situations during connection by turning the external device off during connection, and likewise by taking it out of range in the same state, and confirm that the feedback (whether visual or haptic) is clear and unambiguous and does not need an audio component to be understood. RESULT: Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback. 	audio notif	ications in the device's Settings.		
 Launch the Application. Bring a suitable external device (hearing aid, microphone pickup or other hearing assistance device with which the Application is designed to work) within range, and set it into a state suitable for connecting with the Application. Set the Application into the appropriate state for connecting to an external device if this is not done automatically at startup. Check that the Application correctly detects and connects to the assistance device, and that detection and connection are confirmed visually, or by haptic feedback if this is sufficiently distinct from other feedback as to be completely unambiguous. Check the handling of error situations during connection by turning the external device off during connection, and likewise by taking it out of range in the same state, and confirm that the feedback (whether visual or haptic) is clear and unambiguous and does not need an audio component to be understood. RESULT: Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback. Result of Test				
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 hearing assistance device with which the Application is designed to work) within range, and set it into a state suitable for connecting with the Application. 3. Set the Application into the appropriate state for connecting to an external device if this is not done automatically at startup. 4. Check that the Application correctly detects and connects to the assistance device, and that detection and connection are confirmed visually, or by haptic feedback if this is sufficiently distinct from other feedback as to be completely unambiguous. 5. Check the handling of error situations during connection by turning the external device off during connection, and likewise by taking it out of range in the same state, and confirm that the feedback (whether visual or haptic) is clear and unambiguous and does not need an audio component to be understood. RESULT: Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback. Result of Test 			ioronhono niakun or athar	
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 Application. 3. Set the Application into the appropriate state for connecting to an external device if this is not done automatically at startup. 4. Check that the Application correctly detects and connects to the assistance device, and that detection and connection are confirmed visually, or by haptic feedback if this is sufficiently distinct from other feedback as to be completely unambiguous. 5. Check the handling of error situations during connection by turning the external device off during connection, and likewise by taking it out of range in the same state, and confirm that the feedback (whether visual or haptic) is clear and unambiguous and does not need an audio component to be understood. RESULT: Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback. Result of Test 				
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 device if this is not done automatically at startup. 4. Check that the Application correctly detects and connects to the assistance device, and that detection and connection are confirmed visually, or by haptic feedback if this is sufficiently distinct from other feedback as to be completely unambiguous. 5. Check the handling of error situations during connection by turning the external device off during connection, and likewise by taking it out of range in the same state, and confirm that the feedback (whether visual or haptic) is clear and unambiguous and does not need an audio component to be understood. RESULT: Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback. Result of Test 	3.		or connecting to an external	
device, and that detection and connection are confirmed visually, or by haptic feedback if this is sufficiently distinct from other feedback as to be completely unambiguous. 5. Check the handling of error situations during connection by turning the external device off during connection, and likewise by taking it out of range in the same state, and confirm that the feedback (whether visual or haptic) is clear and unambiguous and does not need an audio component to be understood. **RESULT:** Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback. **Result of Test**		• • • • • • • • • • • • • • • • • • • •	•	
haptic feedback if this is sufficiently distinct from other feedback as to be completely unambiguous. 5. Check the handling of error situations during connection by turning the external device off during connection, and likewise by taking it out of range in the same state, and confirm that the feedback (whether visual or haptic) is clear and unambiguous and does not need an audio component to be understood. **RESULT:** Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback. **Result of Test**	4.	•		
completely unambiguous. 5. Check the handling of error situations during connection by turning the external device off during connection, and likewise by taking it out of range in the same state, and confirm that the feedback (whether visual or haptic) is clear and unambiguous and does not need an audio component to be understood. **RESULT:** Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback. **Result of Test**				
5. Check the handling of error situations during connection by turning the external device off during connection, and likewise by taking it out of range in the same state, and confirm that the feedback (whether visual or haptic) is clear and unambiguous and does not need an audio component to be understood. RESULT: Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback. Result of Test			n other feedback as to be	
external device off during connection, and likewise by taking it out of range in the same state, and confirm that the feedback (whether visual or haptic) is clear and unambiguous and does not need an audio component to be understood. RESULT: Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback. Result of Test	_	. , ,		
in the same state, and confirm that the feedback (whether visual or haptic) is clear and unambiguous and does not need an audio component to be understood. RESULT: Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback. Result of Test	5.			
is clear and unambiguous and does not need an audio component to be understood. RESULT: Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback. Result of Test				
understood. RESULT: Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback. Result of Test				
RESULT: Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback. Result of Test		·		
Connection and disconnection to the external aid should be reliable and easily understood without any audio feedback. Result of Test	understood.			
understood without any audio feedback. Result of Test	RESULT:			
Result of Test	Connection and disconnection to the external aid should be reliable and easily			
☐ PASS ☐ FAIL	Result of Test			
LI FAGO LI FAIL	□ PASS □ FAII			
	□ FA33	☐ FAIL		

4. Usage without vocal capability

4.1. Navigation

4.1.1. Navigation not limited to speech input

Test ID Test Title

restid	rest ritle	Critical	
4.1.1	Navigation not limited to speech input		
Test Desci	•		
	n-visual navigation should have an alternativ	/e to speech input.	
Required f			
All	applications.		
Testing No			
	at the Android accessibility service 'TalkBack' is	installed on the device, and	
enabled.			
Ensure that	at Explore By Touch is enabled in TalkBack settl	ings.	
Testing St			
	Launch the Application.		
	Explore navigation of the Application's function		
3.	Check that it is possible to navigate the Application satisfactorily without		
	being required to use speech input.		
4.	Where the Application has optional Settings to		
	accessibility issues (e.g. sight impairment) chec		
	does not render the Application unusable for so	omeone unable to use a	
_	speech-driven interface.	d Evaloro Dy Touch to make	
5.	Check that proper use is made of TalkBack and the Application accessible to a user who canno		
	speech-driven interfaces.	t fully use visual and	
	specon-unven interraces.		
RESULT:			
Navigation within the Application should not be limited to solely speech-driven			
input, even when the Application is intended for users with other accessibility			
issues such as sight impairment.			
	Result of Test		
Troum of root			
☐ PASS ☐ FAIL			

4.2. Control (execution of actions)

4.2.1. Control actions not limited to speech input

Test ID	Test Title	Critical	
4.2.1	Control actions not limited to speech		
	input.		
Test Desc	•		
	n-visual control actions should have an alter	native to speech input.	
Required f			
	applications.		
Testing No			
	at the Android accessibility service 'TalkBack' is	installed on the device, and	
enabled.	(E D T		
Ensure tha	nt Explore By Touch is enabled in TalkBack Sett	ings.	
Tooting Ct	one		
Testing Sto	eps Launch the Application.		
	Explore use of the Application's functions.		
	Check that it is possible to operate the Applications	ion satisfactorily without	
0.	being required to use speech input.	ion satisfactorily without	
4.	Where the Application has optional Settings to	assist with other	
	accessibility issues (e.g. sight impairment) che		
	does not render the Application unusable for so		
	speech-driven interface.		
5.	Check that proper use is made of TalkBack and	d Explore By Touch to make	
	the Application accessible to a user who cannot	t fully use visual and	
	speech-driven interfaces.		
RESULT:			
Control of the Application's functionality should not be limited to solely speech-			
driven input, even when the Application is intended for users with other			
accessibility issues such as sight impairment.			
Result of Test			
□ PASS □ FAIL			
LI AGO			

4.3. Feedback

Not Applicable

4.4. Display

4.4.1. Text display
Test ID Test Title

TUSTID	103t 11tic	Orthodi
4.4.1	Text displays	
Test Descr	iption	
The	Application should produce acceptable ass	sistive text on the device
dis	play where that is part of its intended function	on.
Required fo		
•	olications which produce assistive text whic	h can be displayed on the
	rice.	
Testing No	te	
J		
Testing Ste	eps	
•	Launch the Application.	
	Explore the functionality of the Application while	e making use of the facility
	to display assistive text to third parties in place	•
	Check that the resulting output is of acceptable	•
	it can be easily understood by a viewer without	
	it can be easily understood by a viewer without	prior training or expensive.
RE.	SULT:	
Useful assistive text is provided wherever the user is likely to need it.		
Result of T	est	
	☐ FAIL	

4.5. Adjustments / Settings

4.5.1. Text-to-speech configuration & quality

Test ID Test Title

Test ID	Test Title	Critical	
4.5.1	Text-to-speech configuration & quality		
Test Desci			
	tt-to-speech (TTS) assistance should be con	figurable to produce	
	eptable quality output.		
Required f			
	applications.		
Testing No			
	al TTS libraries or voice files are required for full		
	ese should be installed before testing, and device		
be selecte	d for best output quality outside of the Application	on.	
T (in 0)			
Testing Ste	•		
	Launch the Application.	occoon, in conjunction	
۷.	Using the Settings menu of the Application (if n with the device's TTS Settings), select options		
	speech (unless this is already enabled by defail	•	
	and / or pitch of output if available.	,,	
3.	Check that it is easy for the user to obtain good	I quality output that would	
	be understood by a listener without training or e		
4.	Check that where different "voices" are offered	each one offers easily	
	understood output of acceptable quality.		
	RESULT:		
Configuration options on assistive text-to-speech should make it possible to			
achieve acceptable output for general use.			
Result of Test			
	□ FAII		
☐ PASS	☐ PASS ☐ FAIL		

4.6. External Devices

l est ID	lest litle	Critical	
4.6.1	External Text-To-Speech devices		
Test Descr			
	 Application should operate correctly with e 	<u>-</u>	
	S) devices where that is part of its intended	function.	
Required for			
	olications which produce assistive text-to-sp	peech in conjunction with	
	external audio output device.		
Testing No			
	I TTS libraries or voice files are required for full	•	
	se should be installed before testing, and device	•	
be selected	d for best output quality outside of the Application	on.	
Tooting Ct	ana.		
Testing Ste			
	Launch the Application. Using the Settings menu of the Application (if n	occessary in conjunction	
	with the device's TTS Settings), select options		
	speech on the external device, and to vary the		
	output if available.	opoda ana / or phon or	
	Check that it is easy for the user to obtain good	I quality output that would	
	be understood by a listener without prior training		
is an account by a notional managed and on positional			
RESULT:			
Text-to-speech functionality using an external device should be of acceptable			
quality.			
Result of Test			
☐ PASS	☐ PASS ☐ FAIL		

USAGE WITHOUT VOCAL CAPABILITY

4.6.2. External text displays

l est ID	l'est l'itle	Critical
4.6.2	External text displays	
Test Descr	iption	
The	Application should operate correctly with e	external text displays
whe	ere that is part of its intended function.	
Required for	or:	
App	olications which produce assistive text whic	h can be output through
an o	external display.	
Testing No	te	
The device	should be set up to obtain optimum quality out	put on the external display.
 Launch the Application. Explore the functionality of the Application while making use of the facility to display assistive text to third parties in place of speech. Check that the resulting output is of acceptable quality and layout such that it can be easily understood by a viewer without prior training or experience. 		
RESULT: Assistive text output to external displays should be of acceptable quality for general use.		
Result of Test		
☐ PASS	☐ FAIL	

5. Usage with limited manipulation or strength

5.1. Navigation

5.1.1. Alternative inputs for navigation

Test ID Test Title

l est ID	i est Title	Critical
5.1.1	Alternative inputs for navigation	
Test Descr	iption	
	ere navigation inputs require specific dexter	rity abilities, alternatives
sho	ould be offered.	
Required for		
All	applications.	
Testing No	te	
	hould be made with the assumption that the use	
joint mobili	ty and control, therefore operations which call fo	or:
_	er pinch movements	
• twis	sting of the hand or device	
• rota	ation of the device	
will be una	cceptable unless alternative navigation method	s are available.
 Launch the Application. Where the Settings of the Application offer options relevant to users with limited dexterity, ensure those options are selected. Check that the Application can be navigated throughout its normal range of usage by a user with dexterity limitations. 		
RESULT: The Application must be navigable by a user with limited dexterity. Result of Test		
☐ PASS ☐ FAIL		

5.2. Control (execution of actions)

5.2.1. Assistive options for control

Test ID Test Title

Test ID	Test Title	Critical	
5.2.1	Assistive options for control		
Test Descr			
	ntrol options should exist for combining acti	ons requiring dexterity.	
Required for			
	applications.		
Testing No			
	hould be made with the assumption that the use	_	
	ty and control. Operations which call for simulta		
•	equence of inputs should offer options to simpli	, ,	
	keys" options used to allow some sequential co	ntrol actions to be treated	
as II triey w	vere simultaneous.		
Testing Ste	ans		
_	Launch the Application.		
	Where the Settings of the Application offer option	ons relevant to users with	
	limited dexterity, ensure those options are selections		
	Check that any control simplifying / combining of		
	user with limited dexterity, and no commonly-us		
	omitted.		
	RESULT:		
The Application should offer assistive options for control that will assist a user			
with dexterity impairment, and commonly-used options are not omitted.			
Result of Test			
☐ PASS	☐ PASS ☐ FAIL		

5.2.2. Pressure-related input options

Test ID	Test Title	Critical
5.2.2	Pressure-related input options	
Test Descr	•	
	plications should offer input methods for us	ers with limited ability to
	trol touch input.	
Required fo		
	applications.	
Testing No		
	nould concentrate on the needs of users with tre	
	that can create difficulty in maintaining consiste	nt pressure or accuracy for
toucn / pre	ss / hold operations.	
2.3.4.5.	Launch the Application. Explore the functionality of the Application. Check that the Application can be used without between single-tap, double-tap, long-press or pathe Application responds to all these actions as Check that actions like play / pause functions a operation of the same control (e.g. separate co control changing function with each touch). Check that any popup messages that contains buttons are not positioned over controls in the because an undesired or irreversible action. The couching twice in the same location, which coul operation of an underlying control when the population.	oress-and-drag actions (i.e. if they are single-tap). re not limited to single-touch ntrols rather than the same confirm / cancel or other background UI that could user may be unable to avoid d cause unintended
RESULT: Options offered should be of genuine value to users with limitations in touch consistency or accuracy, and UI layout should avoid control positioning that risks unintended operation through multiple touches.		
Result of Test		
☐ PASS ☐ FAIL		

5.2.3. Multi-finger control options

Test ID	Test Title	Critical
5.2.3	Multi-finger control options	
Test Desci	ription	
	plications should offer an alternative to mult	i-finger gestures.
Required f		
	applications.	
Testing No		
	hould ensure that the needs of users who canno	ot use multiple fingers in
	ntrols are met.	
should be	ttings offer options that provide alternatives to m	iuiti-iiriger gestures, triese
	selected. or the purposes of this test, "pinch-to-zoom" wo	uld be counted as a multi
	ure as it requires two fingers in contact with the	
miger gest	are as it requires two impers in contact with the	derect to execute.
Testing St	eps	
_	Launch the Application.	
2.	Explore the Application by navigating through a	all of its screens and using
	its functions, using only one finger in contact w	
3.	Check that all of its functionality can be used w	_
	finger gestures (i.e. that where multi-finger ges	tures exist, single-point
equivalents using tap or press are available).		
RESULT:		
The Application should be fully usable without the use of multi-finger gestures.		
Result of Test		
result of rest		
PASS	☐ FAIL	

5.3. Feedback

Not Applicable

5.4. Display

5.4.1. Dialogue boxes & timeouts
Test ID Test Title

Test ID	Test Title	Critical	
5.4.1	Dialogue boxes & timeouts		
Test Desci	ription		
Inte	eractive elements should not pressure users	to respond quickly.	
Required f	or:		
All	applications.		
Testing No	ote		
Testing Ste	-		
	Launch the Application.		
	Explore the functionality of the Application.		
3.	Check that all dialogue boxes & controls allow		
,	read information, provide responses or operate		
4.	Where auto-scrolling or auto-refreshing text is u		
	the user to cancel or pause these actions without the user to cancel or pause these actions without the user to cancel or pause these actions without the user to cancel or pause these actions without the user to cancel or pause these actions without the user to cancel or pause these actions without the user to cancel or pause these actions without the user to cancel or pause these actions without the user to cancel or pause these actions without the user to cancel or pause these actions without the user to cancel or pause these actions without the user to cancel or pause these actions without the user to cancel or pause the user to cancel		
	unlimited time for information to be understood	and responded to ii	
5	required. Where timeouts are in use by default, the user	should be provided with	
ე.	Where timeouts are in use by default, the user adequate warning of an imminent timeout, and	•	
	timeout from acting.	the ability to prevent that	
	timeout nom acting.		
RF	SULT:		
The Application should always wait for as long as the user needs to interact			
with it and should not dismiss informative displays or move to another function			
if the user cannot respond in a set time.			
Result of Test			
□ PASS □ FAIL			

5.4.2. Displayed information – cognitive overload

Test ID	Test Title	Critical	
5.4.2	Displayed information – cognitive		
	overload		
Test Desci			
	plications should not display successive into		
	ssages until each preceding one has been a	ctioned by the user.	
Required f	or:		
All	applications.		
Testing No	ote		
Testing St	eps		
	Launch the Application.		
	Explore the functionality of the Application.		
3.	Check that the language used is plain and simp		
	of icons where possible, to simplify the present		
4.	Check that whenever information is presented		
	requested, it is always in manageable quantitie	•	
	messages need to be displayed, the Application		
	acknowledgement before proceeding to the next message.		
RESULT:			
The Application should always present information in manageable quantities			
and wait for user input before stepping to the next message.			
Result of Test			
☐ PASS	☐ PASS ☐ FAIL		

5.5. Adjustments / Settings

5.5.1. Touch-related settings

Test ID Test Title

Test ID	Test Title	Critical	
5.5.1	Touch-related settings		
Test Descr	ription		
App	plications should offer adjustment to suit us	sers with difficulty in	
	intaining optimum touch pressure, consiste	ency or accuracy.	
Required for			
	applications.		
Testing No			
	hould concentrate on settings that address the		
	control limitations that can create difficulty in m	aintaining consistent	
pressure of	r accuracy for touch / press / hold operations.		
T 1/2 01/2			
Testing Ste	•		
	Launch the Application. Explore use of Settings touch / pressure / key	repetition rate entions	
	Check that the options available implement rea	•	
	with these limitations, e.g.	di-world beliefits for users	
	a. Haptic pulsing (for tremor),		
	b. Ability to vary touch / hold pressure thro	esholds	
	c. Options for replacing augmenting long-		
	other single-touch controls.	proce, mera accione man	
	 d. Options for enlarging the size of contro 	I sensing areas (not just the	
	size of the displayed control element).	3	
	e. Actions like long press to trigger a key-	repetition function can be	
	disabled.		
RES	RESULT:		
Options offered should be of genuine value to users with limitations in touch			
consistency or accuracy.			
Result of T	Result of Test		
☐ PASS	☐ FAIL		

5.6. External Devices

5.6.1. Connection and operation with external devices

Test ID Test Title

Test ID	Test Title	Critical	
5.6.1	Connection and operation with external		
	devices		
Test Desc	ription		
The	Application should operate correctly with e	external devices and	
CO	ntrols that provide dexterity assistance.		
Required t	for:		
All	applications.		
Testing No	ote		
This test a	ddresses the use of external switches, keyboard	ds and other controls which	
	xterity-related improvements in the accessibility		
	n, such as joysticks, puff and sip controls, Braille	keyboards and audio aid	
devices.			
	at extent possible, the external device or devices	-	
	as working correctly before launching the Applic	cation (unless such devices	
are only of	perable within the Application).		
Tooting Ct	one		
Testing St	•		
	Launch the Application.		
	2. Explore the functionality of the Application.3. Check that all external devices relevant to operation of the Application		
3.	have been correctly detected & connected, and		
	expected functionality in a usable manner.	i that they provide the	
expected full-clionality in a usable mainler.			
RF	RESULT:		
The Application should operate correctly with all relevant external devices.			
Result of Test			
	Trooms of Foot		
□ PASS □ FAIL			

6. Usage with limited cognition

6.1. Navigation

6.1.1. Help information Test ID Test Title

ICSLID	rest ritie	Official
6.1.1	Help information	
Test Descr	iption	
Hel	p information to be complete, understandab	le and not over-complex.
Required fo	or:	
All	applications.	
Testing No	te	
2. 3. 4.	Eps Launch the Application. Check that Help information is available for all the Check that each item of information is neither to be usable. Each item should cover a single prompt or fundation before returning to the Help for assistance.	oo long nor too detailed to
RESULT: Help should be provided for all functions of the Application. Help information should always be in manageable quantities.		
Result of T	est	
☐ PASS	☐ FAIL	

6.1.2. Clarity of single action

Test ID	Test Title	Critical	
6.1.2	Clarity of single action		
Test Desc			
	plication functions should be expressed as s	single clear actions.	
Required t			
	applications.		
Testing No	ote		
T " 0"			
Testing St	·		
	Launch the Application.		
	Explore the functionality of the Application.	is presented as a single	
3.	3. Check that each function within the Application is presented as a single, understandable action or concept.		
1	Where complex ideas or actions have to be intr	oduced they should be	
7.	broken down into single-concept elements and		
	prevent cognitive overload.	presented successively to	
5.	Check that good use of <i>header</i> – <i>sub header</i> –	paragraph structures	
	breaks the information down into manageable s		
6.	Check that links have a descriptive label/text sh		
	accesses. They should not use generic phrase	9	
	, g ,		
RE	SULT:		
Eve	Everything the Application does should be simply and directly presented as		
single actions.			
Result of T	Result of Test		
☐ PASS ☐ FAIL			

6.1.3. Limiting the number of options / choices presented to the user

Test ID	Test Title	Critical
6.1.3	Limiting the number of options / choices	
	presented to the user	
Test Descr	iption	
The	Application should not present long list of	options / choices.
Required for	or:	
All	applications.	
Testing No	te	
 Launch the Application. Explore the Settings (where present) and functionality of the Application. Check that choices are given as a limited number of simple high level concepts: Each entry should break down into successive layers. Each layer should introduce only one idea or action. At any point in the structure, only a small number of choices should be presented. 		
RESULT: Only small sets of choices should be shown in a single step or screen.		
Result of T	est	
☐ PASS	☐ FAIL	

6.1.4. Language complexity

Test ID	Test Title Critical		
6.1.4	Language complexity		
Test Descr	iption		
	guage used in the Application should be si	nple and direct.	
Required for			
	applications.		
Testing No	te		
Testing Ste			
	Launch the Application.		
	Explore its functionality.		
3.	Check that:		
	 a. Prompts, labels and informative texts as be easily understood. 	e not too long or detailed to	
	b. Single ideas or actions are presented the	nat the user can act upon	
	before proceeding to the next step.	stant simple and	
	 The language used throughout is consist straightforward. 	stent, simple and	
	d. Multiple possible actions are not introdu	ced in the same sentence.	
	 The user should not be required to keep in mind at the same time to successfully 		
RE.	SULT:		
Info	Information should always be presented in simple, direct language. Complex		
sentence structures should not be used.			
Result of T	est		
☐ PASS	☐ FAIL		

6.2. Control (execution of actions)

6.2.1. Presentation of control elements Test ID Test Title

Test ID	Test Title	Critical	
6.2.1	Presentation of control elements		
Test Descr	ription		
	ntrol elements should be presented in a way	that suggests the	
	come and maximises clarity.		
Required for			
	applications.		
Testing No	te		
Testing Ste	•		
	Launch the Application.		
	Explore the functionality of the Application.		
3.	Check that:		
	 Controls are simply identified. 		
	 b. Controls with similar appearance or labe the same time. 	eling are not presented at	
	c. Appearance and labeling of controls is	easy to associate with the	
	outcome.		
	 d. Understanding the purpose or action of having to hold a context in mind over me 	-	
RE.	SULT:		
Cor	Control elements should be clear and easily understood.		
Result of T	est		
☐ PASS	☐ FAIL		

6.3. Feedback

6.3.1. Clarity of feedback

Test ID Test Title

Test ID	Test Title Critical		
6.3.1	Clarity of feedback		
	Test Description		
All	feedback produced by the Application shou	ld be expressed simply	
	l clearly.		
Required for			
	applications.		
Testing No	te		
2.	Launch the Application. Explore the functionality of the Application. Check that: a. Feedback is expressed in simple, clear b. Feedback is not excessively lengthy or elements. c. Feedback explains its purpose well (esprould be unexpected by the user). d. Notification of errors is short, unambigue e. Error messages state the action to record. Avoid passive sentence structures ("x sisentences ("do x").	composed of multiple pecially if its appearance ous and easily understood. ver from the error.	
	SULT: edback should be easily understood and acted of the state of the	on by the user.	
☐ PASS	☐ FAIL		

6.4. Display

6.4.1. Text fonts and sizes Test ID Test Title

l est ID	l'est l'itle Critical		
6.4.1	Text fonts and sizes		
Test Descr	ription		
Tex	t should be displayed in font faces and size	s that favour clarity and	
log	ical relationships.		
Required for	or:		
All	applications.		
Testing No	te		
Testing Ste	eps —		
1.	Launch the Application.		
2.	Explore all parts of the Application – functionali	ty, Settings, Help etc.	
3.	3. Check that:		
	 a. Font faces and sizes used maximise readability and clarity. 		
	b. Where font sizes change between blocks of text, the reason for the		
	change is obvious and logical for the user.		
	 c. Headings are logical and consistent and 	d make good use of font	
	sizes for clarity.		
5-	O T		
RESULT:			
Font faces and sizes should be chosen for clarity and easy understanding.			
Result of T	est		
	∐ FAIL		

6.4.2. Colours for reading comprehension

Test ID Test Title

6.4.2	Colours for reading comprehension		
Test Descr			
	user should be able to choose from a rang	e of colours for text and	
	kgrounds that may aid reading comprehens		
Required for			
All	applications which address reading compre	ehension issues.	
Testing No	te		
	ch (http://www.dyslexic.org.uk/research/vision-		
	e of coloured filters can help reading comprehe	nsion. Display options	
	nimic this should be offered where possible.		
	st is only appropriate if the Application is intend	led to directly aid reading	
compre	hension issues such as dyslexia.		
Tooting Ct	-n-a		
Testing Ste			
	Launch the Application.	polication	
	Explore the functionality and Settings of the Ap	•	
	Check it is possible to display text in a colour arrangement that aids reading comprehension in different light levels. Possible options would be:		
	a. Black, white, grey, yellow or blue back	•	
	b. Black, white, grey, yellow or blue text.	grounds.	
4	4. The colour combinations offered should be clear with acceptable contrast		
	ranges.	ar war acceptable contract	
RE:	SULT:		
The	Application should offer ways of presenting te	xt for best reading	
comprehension.			
Result of T	est		
☐ Pass	☐ Annoying ☐ Difficult ☐	Impossible	
This test is not applicable where			
☐ The Application is not intended to aid reading comprehension issues.			
∐ Ine Ap	plication is not intended to aid reading com	prenension issues.	

6.4.3. Dialogue boxes & timeouts

i est iD	l'est l'itle Critical		
6.4.3	Dialogue boxes & timeouts	& timeouts	
Test Description			
	eractive elements should not pressure users	to respond quickly.	
Required for			
All	applications.		
Testing No	te		
Tosting St	one		
Testing Ste	•		
	Launch the Application.		
	Explore the functionality of the Application.	the user unlimited time to	
	Check that all dialogue boxes & controls allow read information, provide responses or operate		
	Where auto-scrolling or auto-refreshing text is a		
	the user to cancel or pause these actions without		
	unlimited time for information to be understood		
	required.	and responded to ii	
	Where timeouts are in use by default, the user	should be provided with	
	adequate warning of an imminent timeout, and		
	timeout from acting.	the demity to provent that	
	amoodi nom dodnig.		
RE.	SULT:		
	Application should always wait for as long as t	he user needs to interact	
with it and should not dismiss informative displays or move to another function			
if the user cannot respond in a set time.			
	Result of Test		
☐ PASS ☐ FAIL			
	_		

6.5. Adjustments / Settings

6.5.1. Reading level options

Test ID	Test Title	Critical
6.5.1	eading level options	
Test Descr		
App	plications presenting complex information s	hould have an option to
sim	plify what is presented to the user.	
Required fo	or:	
All	applications.	
Testing No	te	
This test is	only intended to apply to an Application whose	purpose is to present
•	formation to the user. The intention behind the	
	tion offers display options that reduce the amou	
	en to be easier to understand (for example "Sin	nple" versus "Advanced"
display opt	ions).	
2.	Launch the Application. Explore the Settings of the Application. Check: a. Whether the Application defaults to a condition. b. Whether controls or their labels are condition. c. Whether an option is offered to simplify understood basics. d. Whether the simplified presentation manual understanding.	nplex. this presentation to easily-
RESULT: If an Application normally shows complex information or controls, it should offer a simpler, clearer presentation that is restricted to key elements only.		
Result of T	est	
☐ PASS	☐ FAIL	

6.6. External Devices

Not Applicable

Attributions and References

Portions of this document are modifications based on work created and <u>shared by the Android Open Source Project</u> and used according to terms described in the Creative Commons 2.5 Attribution License.

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Version control

Version	Date	Changes made
v0.8	Apr 2015	Draft version for circulation & discussion.
v1.0	May 2015	Updated after detailed comments & feedback.
v1.1	Jun 2015	Updated after wider consultation.
v1.2	Jul 2015	First release version after further feedback.

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