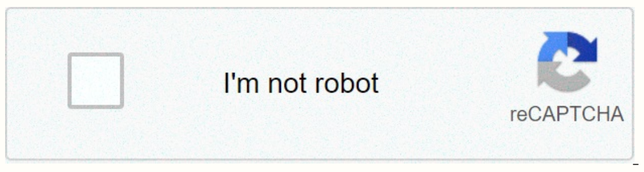

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Newest ios for ipad

This article is about the version history of the mobile operating system developed by Apple Inc. For the router/switch OS developed by Cisco Systems, see Cisco IOS. History of the mobile operating system developed by Apple Inc. The version history of the mobile operating system iOS, developed by Apple Inc., began with the release of iPhone OS 1 for the original iPhone on June 29, 2007. Since its initial release, it has been used as the operating system for iPhone, iPad, iPod Touch, and HomePod, seeing continuous development since then, resulting in new major releases of the software typically being announced at the annual Apple Worldwide Developers Conference and later released in September, coinciding with the release of new iPhone models. The latest stable version, iOS 14.4.1, was released on March 8, 2021. The latest beta version, iOS 14.5 beta 5, was released on March 23, 2021. Updates can be done over-the-air through settings (since iOS 5), or via the iTunes or Finder applications.[1] Overview June 2007 saw the official release of what eventually became iOS – concurrently with the first iPhone. iOS did not have an official name until the official release of the iPhone software development kit (iPhone SDK) on March 6, 2008. Before then, Apple marketing simply stated that iPhone ran a version of Mac OS X made specifically for the iPhone.[2] When iOS was introduced, it was named iPhone OS. It was officially renamed iOS on June 7, 2010, with the announcement and introduction of the first-generation iPad. The introduction of what would later become the iPad line, and the existence of iPod Touch, meant the iPhone was no longer the only device to run the mobile operating system. iOS 4 was the first major iOS release that reflected the name change.[3] Apple licensed the "iOS" trademark from Cisco Systems.[4] Apple concurrently provides the same version of iOS for the comparable model of iPhone and iPod Touch, usually devices released in the same calendar year. iPhone users receive all software updates for free, while iPod Touch users paid for the 2.0 and 3.0 major software updates. As of iOS 4, Apple no longer charges money for iPod Touch updates.[5] As of 2020,[update] four versions of iOS were not publicly released, with the version numbers of three of them changed during development. iPhone OS 1.2 was replaced by a 2.0 version number after the first beta; the second beta was named 2.0 beta 2 instead of 1.2 beta 2. The second was iOS 4.2, replaced with 4.2.1 due to a Wi-Fi bug in 4.2 beta 3, causing Apple to release 2 golden masters (4.2 GM and 4.2.1 GM).[6] The third was iOS 13.4.5, which was renamed to iOS 13.5 when Beta 3 was released, with the introduction of the Exposure Notification API, which required an SDK update. Similarly, iOS 13.5.5 was renamed to iOS 13.6 in beta 2, with the introduction of new features for the Health app. One version of iOS was pulled back by Apple after being released: iOS 8.0.1 was pulled back by Apple because of issues with cellular service and Touch ID on iPhone 6 and iPhone 6 Plus units. vte Current iOS/iPadOS versions Version Build Architecture Release date Device end-of-life iPad iPhone iPod Touch 3.1.3 7E18 32-bit ARM February 2, 2010 N/A 1st gen 1st 4.2.1 8C148 November 22, 2010 3G 2nd 5.1.1 9B206 May 7, 2012 1st gen N/A 3rd 6.1.6 10B500 February 21, 2014 N/A 3GS 4th 7.1.2 11D257 32/64-bit ARM[7][8] June 30, 2014 4 N/A 9.3.5 13G36 August 25, 2016 2, 3rd, Mini N/A 5th 9.3.6 13G37 July 22, 2019 4S N/A 10.3.3 14G60 July 19, 2017 4th 5C 10.3.4 14G61 July 22, 2019 5 12.5.1 16H22 64-bit ARM[9] January 11, 2021 Air (1st), Mini 2, Mini 3 5S, 6 6th 14.4.1 18D61 March 8, 2021 N/A 14.5 beta 5 18E5186a March 23, 2021 Legend: Discontinued Old, still maintained Current Beta Version history Legend: Obsolete; completely unsupported Discontinued Old, still maintained Current Beta iPhone OS 1 Apple announced iPhone OS 1 at the iPhone keynote on January 9, 2007, and it was released to the public alongside the original iPhone on June 29, 2007. No official name was given on its initial release; Apple marketing literature simply stated the iPhone runs a version of Apple's desktop operating system, OS X.[10] The release of iPhone OS 1.1 brought support for the iPod Touch (1st generation). iPhone OS 1.1.5 was the final version of iPhone OS 1. It became unsupported on May 18, 2010. What Apple did not announce was the prototype code name "Acorn OS" which looked like the iPod Classic.[11] iPhone OS 1.0 iPhone: 1st Version Build Release date Features 1.0 1A543a June 29, 2007; 13 years ago (2007-06-29) Initial release on iPhone (1st generation) iPod: Create playlists, organized by albums, artists, and genres, listen to songs and audiobooks, and watch videos and podcasts Phone: Call people, add people to favorites, and group chat More apps like Texting, Photos, Mail, Safari, Maps, Stocks, and Weather Switch between EDGE and Wi-Fi Apple's integrated YouTube video player 1.0.1 1C25 July 31, 2007; 13 years ago (2007-07-31) Security update for Safari. Security Notes: 1.0.2 1C28 August 21, 2007; 13 years ago (2007-08-21) Bug fixes: Items deleted on a user's iPhone are no longer re-synced after they have been deleted. Multi-line addresses can now be processed in Maps. Custom ringtones are no longer lost when an iPhone is restored. iPhone OS 1.1 iPhone:1st iPod touch: 1st Initial release on iPod Touch (1st generation) Version Build Release date Features 1.1 3A100a T13A101a P1 T1 September 14, 2007; 13 years ago (2007-09-14) Initial release on iPod Touch (1st generation); added iTunes Store. 1.1.1 3A109a P13A110a T1 September 27, 2007; 13 years ago (2007-09-27)[12][13] Commonly called the iPhone "September '07 Update" by Apple.[14] Louder speakerphone and receiver volume. Home button double-click shortcut to phone favorites or music controls. Spacebar double-tap shortcut to insert full stop and space (". "). Mail attachments are viewable in portrait and landscape modes. Stocks and cities in Stocks and Weather can be reordered. Battery status for the Apple Bluetooth Headset is now shown in the status bar. Support for TV out. Preferences to turn off EDGE/GPRS when roaming internationally (Data Roaming on/off option). New Passcode lock time intervals. Adjustable alert volume. The interface for the Calculator was redesigned. Security Notes: 1.1.2 3B48b November 12, 2007; 13 years ago (2007-11-12) iTunes now shows the device's current battery level. International language and keyboard support. Patched the TIFF security bug. Adds custom ringtone field. Bug fixes. Security Notes: 1.1.3 4A93 November 12, 2007; 13 years ago (2007-11-12) Free update on iPhone, $19.95 on iPod Touch; commonly called the iPhone "January '08 Update" and January Software Upgrade by Apple.[15] Recent calls contact details now show most recent call times. 'Locate Me' feature for Maps; determines the phone's approximate location using a combination of cellular triangulation and Wi-Fi data from Skyhook Wireless. Also adds hybrid map support and the 'Drop Pin' feature. Icons on the home screen can be rearranged and placed on multiple home screens (up to nine). iTunes gift cards can be redeemed on the iTunes Store. Movies downloaded through iTunes have chapter support. Music now supports lyrics. Web Clips can be added to (and subsequently removed from) the home screen. SMS messages can be sent to multiple contacts using messages. SMS storage capacity increased from 1,000 to 75,000 messages. Defaults to IMAP for new Gmail accounts (formerly defaulted to POP3). Multi-touch keyboard (e.g. simultaneously pressing "Shift" + "a"). The clock timer now remembers the last used options (bug fix). Incoming SMS messages now prompts the user to "Close" or "Reply" (formerly "Ignore" or "Reply"). Pressing either option now marks the message as "seen". Labels for contact data can now be deleted. Applications on the phone no longer run as root; they run as the user "mobile" instead. The ability to listen to music through a Bluetooth headset by going to Voicemail and choosing "Bluetooth" as the audio source no longer works (still works as long as phone is not locked or voicemail screen is active). Security Notes: 1.1.4 4A102 February 26, 2008; 13 years ago (2008-02-26) Bug fixes and enhancements. SMS scramble order fix. More carriers names now fit without scrolling (for roaming on other carriers). The camera received several performance improvements. Interface speed improvements. 1.1.5 4B1T1 July 15, 2008; 12 years ago (2008-07-15) Security update for iPod Touch users who chose not to upgrade to the previously released iPhone OS 2.0. iPhone OS 2 Apple announced iPhone OS 2 at the iPhone software roadmap keynote in March 2008, and it was released to the public on July 11, 2008, alongside the iPhone 3G. Apple did not drop support for any devices with this release. iPhone OS 2 was compatible with all devices released up to that time. The release of iPhone OS 2.1.1 brought support for the iPod Touch (2nd generation). iPhone OS 2.2.1 was the final version of iPhone OS 2. It became unsupported on December 3, 2011. iPhone OS 2.0 iPhone: 1st 3G iPod touch: 1st Version Build Release date Features 2.0 5A347 July 11, 2008; 12 years ago (2008-07-11)[16] Initial release on iPhone 3G; $9.95 upgrade for iPod touch[17] Added language support. Norwegian, Swedish, Danish, Finnish, Polish, Dutch, Korean, and Brazilian Portuguese are now supported on iPhone after having been available on iPod Touch since the v1.1.1 update. Extra keyboard languages including Chinese, Korean, and Russian. Support for Traditional and Simplified Chinese handwriting recognition. Mail, contacts, calendars Grouped settings. Mail Support for Push e-mail. Ability to select an outgoing email account within Mail application.[18] Support for blind carbon copy (BCC) in Mail. Ability to move / delete multiple emails. Ability to view Microsoft Office attachments. Ability to view iWork attachments, including Pages, Numbers, and Keynote.[19] Contacts Contacts icon on "Home" screen (iPhone only, it was formerly on the iPod Touch). Ability to search contacts. Global Address List. Push contacts. Ability to import SIM contacts. Calendar Multiple calendars supported in Calendar with colour-coding (desktop colours only preserved if using Mobile Me). New "Calendar" menu in "Settings".[20] Push calendar. Enterprise enhancements Enforced security policies. Device configuration. Remote wipe. iPod Video can be shown in either landscape orientation (instead of just landscape left). Videos in playlists and music videos can be shown in portrait or landscape orientation. Sound fade-out when exiting a video. Other App Store, a digital storefront allowing users to buy or download apps. Certificates and Identities. WPA2 / 802.1X. Ability to turn Wi-Fi back on while in Airplane mode. Cisco IPsec VPN support. Ability to take screen captures. Ability to save pics from Safari or Mail to Photos.[21] Support for the Bonjour service discovery protocol. Support for the SVG vector graphics format. Addition of Parental controls. Password letters are momentarily visible while typing. Ability to turn Location Services on or off. Applications that use Location Services now prompt user for confirmation 3 times. Tapping status bar to scroll to top shortcut. Updated calculator with extra features in portrait mode, a scientific calculator in landscape mode and an updated icon. Updated iTunes with a new icon and reordered category icons within iTunes application. Camera now supports Geotagging.[22] YouTube plugin for Safari.[23] Security Notes: 2.0.1 5B108 August 4, 2008; 12 years ago (2008-08-04) Bug fixes Performance and stability of Contacts and Calendar applications dramatically improved. Performance while flipping to landscape mode in Safari improved. Performance in Mail app improved. Release improves application crash rates. Keyboard responsiveness improved. 2.0.2 5C1 August 18, 2008; 12 years ago (2008-08-18) Bug fixes Improved communication with 3G networks.[24] Transition from music list to Cover Flow has changed.[25] Tilt to left from landscape no longer switch to portrait when watching video, fixes 2.0 bug. The "Update All" button in the App Store's update tab has been removed. iPhone OS 2.1 iPhone: 1st 3G iPod touch: 1st 2nd Supported on the iPod Touch (2nd generation) starting with iPhone OS 2.1.1. Version Build Release date Features 2.1 / 2.1.1 5F136 P1 P25F137T15F138T2 September 9, 2008; 12 years ago (2008-09-09) T1September 12, 2008; 12 years ago (2008-09-12) P1 P2 Initial release on iPod Touch (2nd generation) (as 2.1.1); free for iPod Touch users who upgraded to iPhone OS 2.0.' Bug Fixes and Improvements Security fix for the double home button exploit. Fixed bugs causing hangs and crashes for users with many third-party applications. Faster installation and updating of third-party applications. Updating applications keeps their icons in place on the home screen. Improvements to Mail stability. Improved email reliability, notably fetching email from POP and Exchange accounts. Faster loading and searching of contacts. Auto-correct now appears above the text instead of below (fixing a usability problem people were having where auto-correct would appear above the first row of keys). Smoother browsing in Safari, particularly when scrolling up/down on a web page. Significantly better battery life for most users.[26] Decrease in call set-up failures and dropped calls.[26] Improved accuracy of the 3G signal strength display. Calculator bug fixed affecting calculations involving Pi.[27] OS enhancements Triple-click on the control button of headphones now jumps music to prior track played. SMS app can alert up to two additional times if the user doesn't acknowledge an incoming text message (will play the alert sound/vibrate again after a period of time as if a new message just came in).[27] Update supporting languages. Option to wipe data after ten failed passcode attempts (after 5 attempts, the device will disable itself for 1 minute. After the 6th attempt, it will disable itself for 5 minutes. In the 10th attempt, it will wipe all data).[27] 3G, EDGE, and GPRS indicators changed.[27] The camera can now be turned off within the restrictions page.[27] When taking a screenshot of the phone, there is now the camera shutter noise. iPhone never gets locked when placed in dock and playing music. New application features Genius playlist creation. More information provided within iPod Music lists (artist and album are now shown below song title when selecting music in addition to remaining time on podcasts). More information is provided for audiobooks, such as displaying time left in active audiobook.[27] New podcasts and videos had "filled" blue bubbles next to them to indicate that they were new, now if the user has "half-played" a podcast or video, it will include a half filled blue bubble.[27] Sound from iPod now fades out if the user starts syncing device with iTunes.[28] Bookmarked home screen apps open in full screen.[29] iPod Touch only Settings for individual speaker sounds. Sounds can no longer be turned off en masse. All sounds must be turned off individually to mute sounds. New speaker sound when sending mail. iPod Touch (2nd generation) only Nike+iPod support.[30] Security Notes: (iPod Touch); (iPhone) iPhone OS 2.2 iPhone: 1st 3G iPod touch: 1st 2nd Version Build Release date Features 2.2 5G77 P1 P2 T15G77a T2 November 21, 2008; 12 years ago (2008-11-21) Free update for iPod Touch owners that upgraded to iPhone OS 2.0T1 or 2.1T2. Maps Google Street View. Public transit and walking directions. Display address of dropped pins. Share location via email. Cache of recent locations. Mail Resolve isolated issues with scheduled fetching of email. Improved formatting of wide HTML email. App Store "Categories" section has been altered to display icons instead of a list.[31] Individual applications pages now have 'Tell A Friend' and 'Report A Problem' buttons.[31] In an app's description, multiple screen shots can now be viewed, instead of just one. "Update All" button added to "Updates" section. Option added to rate an application that is about to be deleted.[32] Improved touch response when purchasing or downloading an application. Application icons display the install progress "in place" while updating, rather than on the last position of the page. Safari Improved stability and performance of Safari. Layout changes for the address bar in Safari[33] iPod The edit/clear icons on the on-the-go playlist have been changed. Podcasts now are being shown in catalogs. Users can no longer delete audiobooks via the device. Audiobooks without artwork are now shown with a book icon instead of a note icon. Contacts US phone numbers now group correctly (e.g., 1111 2222, formerly this would have shown as 1 111222 2). Other Podcasts are now available for download or stream in the iTunes application (over Wi-Fi and cellular networks). Decrease in call set-up failures and call drops. Improved sound quality of visual voicemail messages. Visual voicemail unavailability is shown in a screen instead of voicemail button not working. Improved performance overall, especially noticeable in Notes and Camera applications. Emoji for SoftBank users in Japan.[34] Can also be enabled in all other countries using apps from the App Store. Pressing the Home button from any Home screen goes to the first Home screen. Preference to turn on/off keyboard auto-correction. New languages are supported. Shows Update/Restore progress when update using iTunes. Security improvement.[35] Developers can pipe video out to an external device. Better shift-key behavior. Automatic WebClip icon change. Locked screen screenshots. Ability to record from devices connected through the dock port.[36] iPod Touch (2nd generation) only Line-in recording / audio has been enabled through the headphone jack. The Remote button has been added to Nike + iPod, allowing control of other devices, such as the Apple TV. Security Notes: 2.2.1 5H11 P1 P2 T15H11a T2 January 27, 2009; 12 years ago (2009-01-27) Improved general stability of Safari. Fixed issue where some images saved from Mail do not display correctly in the Camera Roll. Fixes a security exploit related to the unlocking of the iPhone 3G. iPod Touch only Fixed issue that caused some Apple Lossless (ALAC) audio files to skip during playback. iPhone OS 3 Apple announced iPhone OS 3 on March 17, 2009, and it was released to the public on June 17, 2009, alongside the iPhone 3GS. Apple did not drop support for any devices with this release. iPhone OS 3 was compatible with all devices released up to that time, but not all features were available on the original iPhone. The final release supported on the original iPhone and iPod Touch (1st generation) was iPhone OS 3.1.3. The first iPad was introduced along with iPhone OS 3.2.[37][38] It became unsupported on December 9, 2012. iPhone OS 3.0 iPhone: 1st 3G 3GS iPod touch: 1st 2nd Limited support on iPhone (1st generation) and iPod Touch (1st generation) Version Build Release date Features 3.0 7A341 June 17, 2009; 11 years ago (2009-06-17) Initial release on iPhone 3GS; paid $4.95 upgrade on iPod Touch Cut, copy, paste added Tap and hold for select/select all menu (copy menu in photos). Double tap for cut/copy/paste menu all over iOS (SMS, email, Notes, etc.). Two point draggable selection handles displayed to better make a selection. Undo by shaking. In Photos options menu select the copy button to select multiple photos to copy. More/System/Navigation Turn-by-turn Navigation. Lithium-ion polymer battery usage up to 5% better. A-GPS accuracy improved (+5% better). Earth magnetic compass support.P3 Compass App.P3 Maps Features iPhone users got in 2.2 now added for the iPod Touch (e.g. Google Street View, public transit and walking directions, display address of dropped pin, share location via email, and cache of recent locations). Changed behavior when routing directions and showing steps. Stocks Landscape mode that enabled viewing detailed price and change information by dragging one or two fingers across the full-screen chart. Metadata display for detailed information about the symbol, including full company/fund name, market capitalization, price to earning ratio, dividend yield, and statistics about the day and year price range. Table of news stories from various internet sources related to the selected symbol. YouTube Can now log into account. View subscriptions, Favorites, My Videos, History, and Playlists Comment on videos, rate videos Phone Recent Calls now show more details (call length, etc.). Ability to change/set "own number" (my number) in the SIM card. Will be displayed in the Contacts list and iTunes, and possibly used for MMS identification. Contacts are editable via Recent Calls. Photos Videos can be trimmed directly from Camera app. Photos options menu changed (new UI, added copy button). Can now delete multiple photos at once. Camera Video recording in Camera app.P3 Camera gets autofocus. To change focus target, users tap on a different object.P3 Thumbnail of the prior photo captured on the camera roll shortcut. Camera Roll Categorization by All, Photos and Videos. App Store Installs new apps from the second home page on. They can still be moved to the first homepage manually. Screenshot browsing method has changed. SMS application renamed to Messages Application icon was slightly modified, it no longer has the letters "SMS". Sending progress bar has been moved to the title bar and does not cover up the screen. Sending queue (compose a new message(s) while sending others). Select single or multiple messages to forward or delete. SMS entry text box have unlimited lines (actually limited by the screen). MMS functionality including sending vCards, pictures, audio files, video (depends on mobile network availability).P2 P3 Optional Subject line in the Messages settings. Photos can be taken/sent directly from the Messages app. MMS messages are played/viewed in the Messages app. Mail, contacts, calendars, MobileMe MobileMe now has a "Find My iPhone" option, allowing MobileMe users (via the online service) to remotely locate device and wipe data.[39] CalDAV Calendar support. LDAP Contacts support. iCalendar Subscription support. "Load Remote Image" option for mail, to prevent spam. iWork '09 attachment support. Mail several photos in the same message. Mail can now be composed in other apps without leaving the current app (only if the developer allows this). It's now possible to store IM account information for a contact for the following services: AOL Instant Messenger, Yahoo! Messenger, MSN Messenger, ICQ, and XMPP. Users can now view or create 'Invitees' on a Calendar event.P3 Safari Better support for Internet standards and now scores a 97/100 in the Acid3 test. Renders JavaScript from 3 to 16 times faster depending on circumstances. Support for HTML5. New features in Settings such as AutoFill, and Anti phishing. Pressing and holding a link gives three options: Open, Open in New Page and Copy. View subscriptions. The last page is now closable, which will result in a new blank page opening (won't save page info on exit, increases available memory). Bluetooth Bluetooth enabled for iPod Touch (2nd generation).[40] A2DP: stereo audio.P2 P3 T2 AVRCP: Play/Pause/Stop for iPod app (no Next/Back yet). Device side audio control still enabled but does not affect audio stream. PBAP: wireless phone book access (for use with vehicle head units). PAN: personal networking for tethering and ad hoc connections between mobile devices (multi-player gaming). iPod Shake to shuffle songs in iPod app. Search through iPod. Scrubbing through tracks can now be done at 4 variable rates as user moves finger down the screen, and the speed is displayed on screen ("Hi-Speed", "Half Speed", "Quarter Speed", "Fine"). (When Bluetooth is enabled and a paired audio device is present) Audio output menu added to "Now Playing" screen and Home button iPod controls. Location dot while playing video/music now glows while scrubbing the track/video. Podcasts More details shown: time remaining, etc. Can be played at "1⁄2x", 1x, or "2x" speed (actual speeds are 0.8x, 1x, and 1.5x). 30 second rewind button. Can be emailed. Improved language support. Added support for new languages such as Arabic, Greek, Hebrew, Indonesian, Malay, Portuguese, Romanian, Thai, and more. Foreign language keyboards extended to cover additional characters. New Developer APIs Push notifications for 3rd party applications. Support for new Bluetooth services and profiles including A2DP, LDAP, peer-to-peer file sharing, and Bonjour.P2 P3 T2 New APIs in the Maps application allow developers to build it into software. Developers can now use the CoreLocation API to create applications with Turn-by-Turn Navigation. API support for serial I/O through the Dock Connector. 3rd party apps now have access to iPod music library. Support for outbound audio and video streaming. In-App Purchase (IAP) API for paid applications (free apps always remain free). Sign in with iTunes account. Buy service subscriptions or app add-ons. Spotlight Search Saves its last search results and offers options for excluding applications from searches. Partial search for mail, iPod, contacts, events, notes, apps, and web clips. iTunes/sync. iTunes version 8.2. iTunes account creation on device.[41] Can now sign out of iTunes account and use a different iTunes account. iTunes account info can be accessed and edited. Can now read and write reviews for content on iTunes. Movies, TV shows, audiobooks, and iTunes U content can now be purchased on iTunes Wi-Fi store. Notes syncing. Voice memos syncing (audio files added to a "Voice Memos" playlist). Backups can now be encrypted and password protected. Tethering over USB and Bluetooth (depends on mobile network ability).P2 P3 USB tethering auto activated when connected to USB on iTunes 8.2+ (if tethering is enabled in iPhone settings and by phone's carrier). iTunes 8.2 now includes a USB driver for iPhone tethering. Full access to iPhone possible while tethered. (In Windows) iPhone shows up as a standard ethernet connection. Accessibility settings (for the visually/aurally impaired) (iPhone 3GS only).[42] VoiceOver gesture-based screen reader. Touch screen to hear a description of the item under your finger, then double-tap, drag, or flick to control iPhone. Speaks 21 languages and works with all apps. Zoom, magnifies entire screen on any app up to 5 times normal size. Move left, right, up, and down to view any portion of the screen close-up. White on Black, changes display to white on black (instead of the normal black on white), works in any app, and alongside Zoom and VoiceOver. Mono Audio, if users hearing is limited in one ear, routes both right- and left-channel audio into both earbuds, so both channels can be heard in either ear. Speak Auto-text, works with VoiceOver to automatically speak auto-corrections and auto-capitalizations. Other Devices can now connect to Wi-Fi hotspots that use authentication automatically. Locate Me for the iPod Touch accuracy improved. Restrictions have been updated and now block "Current Location" and allows setting what content is appropriate for iPod music/videos/TV shows and apps. 11 home screen pages instead of 9. Now can store 180 apps (including native applications. i.e. Phone, iPod, Safari).[43] Voice control (ability to voice dial and control iPod).P3 Nike+ Support.P3 T2 Stopwatch now shows both the total running time and the current lap time in the upper part of the clock app. Landscape mode added to several applications—Messages (SMS), Mail, Stocks, Contacts, and Notes. Right to left support. Numeric battery percentage view.P3 Holding the home button will no longer force quit an unresponsive application. To force quit an application in 3.0 hold the sleep/wake button until the red power off slider appears. Then hold down the home button to quit the unresponsive application. Screen captures are no longer numbered separately from photos taken with the camera application; all new images in the camera roll now use a common numbering sequence. Voice Memos New native app. Voice memos can be trimmed directly from app. Security Notes: 3.0.1 7A400 July 31, 2009; 11 years ago (2009-07-31) Fixes SMS vulnerability[44] Bug fixes Security Notes iPhone OS 3.1 iPhone: 1st 3G 3GS iPod touch: 1st 2nd 3rd Limited support on iPhone (1st generation) and iPod Touch (1st generation) Version Build Release date Features 3.1 / 3.1.1 7C144 P1 P2 P37C145 T1 T2 T37C146 T3 September 9, 2009; 11 years ago (2009-09-09) Initial release on iPod Touch (2nd generation 8 GB) and iPod Touch (3rd generation). Version 3.1.1 on iPod Touch (3rd generation). Free for iPhone OS 3.0 users; $4.95 for iPod Touch users who stayed on iPhone OS 2.0 Improved Wi-Fi for iPhone 3G with Bluetooth turned on. Ask to Join Networks toggle is hidden unless Wi-Fi is on. Faster boot up time and various speed improvements. Trimming video clips on the iPhone 3GS now offers the ability to save the edited version as a copy rather than simply overwriting the original file. Safari now has a toggle for "Fraud Protection" under its Settings pane. The Bulgarian keyboard now uses the Bulgarian State/National Standard layout instead of the QWERTY layout. On iPod Touch (2nd generation) the Voice Memos app now successfully records audio if a microphone is connected after starting the application. Numbers inside Notes have more options when tap and hold is triggered: Call, Text Message, Create New Contact, Add to Existing Contact. Voice control over Bluetooth is now available, allowing users to initiate calls and control music playback via Bluetooth headsets (however, voice control while plugged into car audio systems no longer works). Improves reception. Fast forward and rewind from headphones. Improved Exchange calendar syncing. Home screens can be customized on iTunes 9. Developer Extras. Improvements to OpenGL and Quartz. APIs allow third party apps to access videos and edit them. Gives programmers their choice of video recording quality. A pair of new app interface classes that are known to relate to graphics, but which haven't had their functions identified. New camera APIs. Calendar event alerts will be shown also with a pop-up, much like push notifications. Enables connectivity to devices for development purposes wirelessly instead of needing tethering via the dock connector. Ability to save videos from Mail or MMS. Ability to copy and paste full quality videos from camera into email. Anti-phishing in Safari. Under usage tab in settings, can view data sent and received over tethering. Instruments over Wi-Fi. New enhancements to Core Audio in iPhone. Failover support for HTTP live streaming. iPod Touch (3rd generation) features: Voice control Accessibility features from iPhone 3GS, such as VoiceOver. Accessibility features can be toggled on or off by triple-clicking the Home button. Option to practice VoiceOver gestures. Fixed an issue that caused app icons to display incorrectly. Genius Mixes. Genius Recommendations for Apps. Sync videos to albums. iTunes U content organization. Redeem Gift Cards in App Store. Display available iTunes account credit. Enhanced iTunes support. Ability to copy and paste telephone numbers in dialer application. Sponsored links in Maps. Direct copy of contact info. Bug fixes. Security improvements.[45] Now fully supports device encryption for Exchange. Uses a new baseband which patches the exploit formerly used to unlock the iPhone 3G/3GS. Adds separate usage metering for tethering data. Security Notes: 3.1.2 7D11 P1 P2 P3 T1 T2 T3 October 8, 2009; 11 years ago (2009-10-08) Attempt to resolve sporadic issue that may cause iPhone / iPod Touch to not wake from sleep. Fixes intermittent issue that may interrupt cellular network services until restart. Fixes bug that could cause occasional crash during video streaming. 3.1.3 7E18 P1 P2 P3 T1 T2 T3 February 2, 2010; 11 years ago (2010-02-02) Final release supported on iPhone (1st generation) and iPod Touch (1st generation) Improves accuracy of reported battery level on iPhone 3GS. Fixes issue where third-party apps would not launch in some instances. Fixes bug that may cause an app to crash when using the Japanese Kana keyboard layout. Fixes security bugs in Core Audio, ImageIO, Recovery Mode and WebKit.[46] Uses a new baseband which patches an exploit formerly used for jailbreaking the iPhone 3G/3GS. Security Notes: iPhone OS 3.2 iPad: 1st Only supported by the iPad (1st generation).[47] Versions 3.2.1 & 3.2.2 were released after the release of iOS 4. Version Build Release date Features 3.2 7B367 S1 S1C April 3, 2010; 10 years ago (2010-04-03) Initial release on iPad (1st generation). Initial support for landscape home screens. Includes new frameworks for recognizing custom gestures, custom keyboards, etc. Allows display output to an externally connected display for compatible 3rd party apps. Allows user to change home screen background. Adds Terrain view in Maps application. Location-based services rely on Apple's own databases instead services of Google and Skyhook Wireless.[48] Allows transferring files between a computer and the device for a shared (per app) document store that all applications can access (iOS file sharing). Only available for the iPad. Allows use of Apple Bluetooth keyboard (possibly other keyboards). Includes a built-in dictionary which can be used in iWork, iBooks, and possibly other apps. The Dock can now hold up to six icons. The iPod app allows users to create and name custom playlists. Safari's new thumbnail view allows users to navigate to up to nine active pages (similar to Top Sites on Safari for OS X). Places in the Photos app allows the user to view their photos by location (needs iPhoto '09). 720p HD videos are available in the YouTube app. Share YouTube videos to Facebook. 3.2.1 7B405S1 S1C July 15, 2010; 10 years ago (2010-07-15) Better Wi-Fi connection. Bug fix in Mail so it does not crash any more when doing copy-and-paste from a one-page PDF document. Bug fix in Video playback so that videos no longer freeze in certain situations. Better reliability when using the iPad Dock Adapter to VGA. Added Bing as a search engine in Safari. 3.2.2 7B500 S1 S1C August 11, 2010; 10 years ago (2010-08-11) Patches PDF exploit which allowed jailbreaking through Safari.[49] Security notes: iOS 4 Apple announced iOS 4 in March 2010 and it was released to the public on June 21, 2010, alongside the iPhone 4. With this release, Apple dropped support for the original iPhone and the 1st generation iPod Touch, which is the first time Apple had dropped support for any device in an iOS release. The iPhone 3G and the 2nd generation iPod Touch were capable of running iOS 4, but had limited features. For example, both devices lack multitasking capabilities and the ability to set a home screen wallpaper. However, iOS 4 was the first major release that iPod Touch users did not have to pay any money for. The release of iOS 4.2.1 brought compatibility to the original iPad and was the final release supported on the iPhone 3G and 2nd generation iPod Touch due to major performance issues. The release of iOS 4.3 brought iPad 2 compatibility.[50][51] It became unsupported on December 18, 2013. iOS 4.0 iPhone: 3G 3GS 4 iPod touch: 2nd 3rd Limited support on iPhone 3G and iPod Touch (2nd generation); initial release on iPhone 4; only available on iPhone and iPod Touch. Version Build Release date Features 4.0 8A293 P2 P3 P4 T2 T3 June 21, 2010; 10 years ago (2010-06-21) Multitasking P3 P4 T3 User interface for app switching by double clicking Home button. Portrait orientation lock.P3 P4 T3 iPod control widget. FaceTime direct video calling ability over Wi-Fi (iPhone 4 and later, iPod Touch (4th generation), and OS X users). iBooks sync support through iTunes for iPhone and iPod Touch. iAd mobile advertising network. Settings App-specific location settings. Cellular data toggle (on-off). "Complex Password" setting: passwords with alphabet characters and numbers. Simple Passcode Lock (4 digit number) option. New wallpapers. Wallpaper available for Home screen.P3 P4 T3 New wallpaper preview for Home screen and lock screen. Support for Internet tethering. New Gmail and Exchange icons in Mail, Contacts, Calendars account settings. Support multiple Exchange accounts. Custom Dictionary. Airplane Mode for iPod Touch. Separated Sounds settings from General settings. Home screen Ability to categorize apps into folders with default folder naming based on category name in App Store. Up to 2,160 instead of 180 visible apps (12 apps per folder). Folder name supports up to 13 characters. Custom Home screen wallpaper. Dock redesigned to that of the iPad dock. Rate on deleting app removed. Default Utilities folder which contains the Clock, Calculator, Voice Memos and Compass apps. Revised scrolling on the Home Screen. Camera Up to 5x digital (as opposed to optical) zoom feature on the Camera app. Tap to focus during video.P3 P4 Photos Categorized by Albums, Faces, Events and Places (under iPhoto in OS X). Support landscape mode. Camera Roll Support landscape mode. App Store Ability to gift apps. Maps Unified "locate me" icon. Background location icon shown on status bar. iPod Playlist creation on device. Nested playlists. Lyrics and Podcast info in Settings. Bluetooth headsets now support volume control. Album art displayed in Album view. Notes Notes syncing with MobileMe, Gmail IMAP and Yahoo! Mail. Accounts management appears if syncing is enabled. Notes setting below Mail, Contacts, Calendars Settings if syncing is enabled. Moved search box into title bar. Calendar Birthday calendar. CalDAV invitations. Ability to edit which calendar an event is located in after the initial saving. Ability to select any combination of calendar categories to view. Contacts Unified info by linking contacts from different accounts. CardDAV. Streamlined "New Contact" screen. Spotlight Search with Web or Wikipedia. Search Messages. Safari Bing is now a search option, along with Google and Yahoo!. Recent searches below search field. Top hit in search. Suggestions appear below search field for all 3 search engines. Unified "Search" keyboard button when search field being used. In-page audio playback. Voice control The ability to ask what the current time is.P3 P4 T3 YouTube Rotate and zoom videos in vertical and horizontal position. Latest 480p for smoother and quicker video playback. Accessibility Larger fonts in Contacts, Mail, Messages and Notes.P3 P4 T3 Message Include a Search bar. Character count (can be enabled or disabled in Settings > Messages screen). Failed SMS notification. Option to toggle off the ability to send group messages. Mail Unified inboxes. Edit from outbox. Support for multiple Exchange accounts. File and delete Mail search results. Organize by thread in Mail. Quick look attachments. Open attachments by registered filetype with corresponding apps from the App Store. Smart links for dates and addresses. Contact pictures in emails. Create Calendar events from dates within emails. International Spell check. Added Cangjie and Wubihua keyboards for Simplified and Traditional Chinese. Text replacement between Simplified and Traditional Chinese. Switch keyboard shortcut (holding the "Earth" button on keyboard for a while). Added support for Danish voice control. New languages added (Catalan, Hungarian, Vietnamese). Other Support for Apple Bluetooth keyboards.P3 P4 T3 Persistent Wi-Fi. Added support for iBooks application. Wake on wireless. Auto-join and auto-login and IPv6 on individual Wi-Fi networks setting. Enhanced data protection.P3 P4 T3 Wireless app distribution. Mobile device management. SSL VPN support (both Juniper and Cisco). Microsoft Exchange Server 2010 support. Improved Bluetooth driver for A2DP devices. Improved iOS animations. Security Notes 4.0.1 8A306 P2 P3 P4 July 15, 2010; 10 years ago (2010-07-15) iPhone only Updated carrier signal strength display. Increase in the length of the smaller signal bars. The method in which signal strength is calculated was modified. Fixed Exchange ActiveSync issues. Only official SIM card number can be used for FaceTime identification. 4.0.2 8A400 P2 P3 P4 T2 T3 August 11, 2010; 10 years ago (2010-08-11) Patches a PDF exploit which allowed jailbreaking through Safari.[52] Security Notes iOS 4.1 iPhone: 3G 3GS 4 iPod touch: 2nd 3rd 4th Initial release on iPod Touch (4th generation); limited support on iPhone 3G and iPod Touch (2nd generation). Only available on iPhone and iPod touch. Version Build Release date Features 4.1 8B117 P2 P3 P4 T2 T3 T4 September 8, 2010; 10 years ago (2010-09-08) Improved calendar colors. Bug fixes iPhone 4 proximity sensor issues. Bluetooth connectivity. Improved performance on iPhone 3G.[53] Nike + iPod fixes and the Retina Display (iPhone 4 only). Fixes white balance issue with iPhone 4 under certain lighting conditions. Fixes FaceTime error where iPhone 3G and iPhone 3GS users could enter "facetime://" URLs in Safari. Game Center.P3 P4 T2 T3 T4 [54] no support for iPhone 3GP2 [55] Security updates to accessibility, FaceTime, ImageIO and WebKit.[56] Enables FaceTime call connection via email contacts (e.g. for iPod Touch (4th generation) users who won't have a phone number) and through favorites.[57] Nike + iPod statistics submissions over Wi-Fi. High dynamic range imaging (HDR) (only available for the iPhone 4).[54] High-definition video uploads over Wi-Fi; iPhone 4 and iPod Touch (4th generation) only.[53] iTunes adds iTunes Ping, a social music network and discovery tool (only available in countries with iTunes Store).[54] TV show rentals (only available for iTunes US Store).[54] Can move an existing appointment from one calendar to another. Notes syncing removed from iPhone 3G due to reported performance problems.[58] Restores Field test mode.[59] Security Notes: iOS 4.2 iPad: 1st iPhone: 3G 3GS 4 iPod touch: 2nd 3rd 4th Limited support on iPhone 3G and iPod Touch (2nd generation). Version Build Release date Features 4.2.1 8C148 P2 P4 T2 T3 T4 S1 S1C8C148a P3 November 22, 2010; 10 years ago (2010-11-22)[60] Final release supported on iPhone 3G and iPod Touch (2nd generation) Bug fixes Birthdays calendar does not display birthdays starting more than 77 years ago.[61] Fixes glitch that can let a user get into the Phone app while the phone is locked via "Emergency Call" by dialing a random number and quickly pressing

to Music and Videos (iPhone and iPad only; was always split on the iPod Touch). Video podcasts can only be found in the Videos app. Ability to play content while the device is synchronizing with iTunes. Ability to delete songs from device (by swiping over the corresponding song). Tap and hold on a song to view extended song information (iPhone and iPod Touch only). Long names scrolling in now playing. Album artwork now displays in full resolution (Retina Display only) on Now Playing screen. Broadcast songs information on devices (e.g. car stereo) when connected over Bluetooth. Improved Sound Check for Music. "Group by Album Artist" option for Music. iTunes Store button has been added to the Music app. Removed ability to view lyrics (on iPad). Camera Volume-up key as shutter release button to take photos (also works using headphone remote volume up button). Also works for starting/stopping recording of videos. Shortcut to Camera app from lock screen, accessed by double-clicking the home button (iPhone 3GS and later and iPod Touch 4th generation only). Grid composition aide (3x3). Spread to zoom-in, pinch to zoom-out. Swipe left to reveal camera roll. Tap and hold to lock/unlock Auto Exposure and Auto Focus. Options button added, HDR toggle and Grid composition aide toggle. New Camera button on Photos app that returns to Camera instead of a "Done" button (was on OS before this) to close the Camera Roll. Face detection and video stabilization. P4S Maps Print maps. Alternate routes. Calendar Can now create, rename, and delete calendars right on the device. Tap and hold or double-tap to create a new event. Tap and hold in "all-day events" to create a new all-day event. Drag appointments to a new time slot. Drag handles to change start and end times. Creating new Event, now an "Invitees" field; takes to screen for multiple email address entry, emails sent to all invitees once event is saved. Invitee can "Accept"/"Decline"/"Maybe"; reply sent to iCloud servers then reflected for all invitees to see. Calendar event on device lists those invitees accepting event. All users on iOS 5.x devices get notification when event is nearing. Ability to specify a time zone to events. Ability to add URLs to events. Current time on Calendar if in landscape mode. Navigate in day view by swiping. Event attachments can now be viewed directly in the app. Share calendars through iCloud with friends and family. Edits made by subscribers to that calendar are updated and pushed to other subscribers of that calendar (can be disabled by the creator of the calendar and locked so others cannot make edits). Japanese or Buddhist calendars support. Mail Rich text formatting (bold, italics, and underline). Indentation control. Ability to mark multiple mail items as read. Ability to flag emails. Draggable mail address in the recipients field. Alert if the subject line is blank. Search now includes body of messages. Delete mails while in Airplane mode. Exchange ActiveSync Email can now be deleted offline. Can create new email folders. Mail sidebar. S/MIME support. Ability to show 1000 recent messages; 25 message option removed. Ability to create additional @me.com email address within the Mail settings. Ability to increase quote level in Mail settings. New and updated tiny icons on Mail for Windows Live Mail, Gmail, Exchange, etc. Hotmail accounts now have new icons and folders. While reading an email the user can swipe right to open a list of messages and swipe left to bring back the open email message again. If the user has multiple email accounts configured in Mail.app, swipe left or right from one's mailboxes folder list, it will take the user to another account's mailboxes. Support for three popular Chinese email services: Tencent's QQ Mail, and Netease's 163.com and 126.com mail inboxes.[79] Photos Built-in basic photo editing: crop, red-eye, auto-enhance and rotate photos. Ability to create and edit local photo albums folders (only those that aren't synced with iTunes). Ability to sync pictures taken on one iOS device automatically with other iOS 5 devices using Photo Stream. Ability to select all when adding pictures to an album. Slight re-design for video time-line under Photos app. Safari Safari Reader: new "Reader" icon appears in address bar if Safari detects a webpage article, removing need to click-through to each page. Scrollable window sheet appears over current webpage showing all article pages together separated by page breaks, removing ads and page clutter. Ability to change font size in reader mode. Reading List: a new area of the bookmarks window has been added, purposed for pages the user might want to read later. New pages can be added from a new option in the action menu or when long-pressing on a link. Items from the Reading List can be synced to iCloud to be pushed to all of the user's other iOS devices. Safari bookmarks can be synced to iCloud. Ability to open pages in background or in new page (change in Settings). Ability to replace a word with a word from a list of similarly spelled words spellings when typing in a text box on a web page. Private Browsing; interface colours change from blue to black (change in Settings). Ability to remove custom website data. CSS fixed position support. Slight fade out at end of long URLs (instead of ellipses) in the address bar. HTML5 drawing is faster. Kinetic scrolling within text fields in Safari. iCloud iTunes, iBooks (books and progress), App Store, Photo, Contacts, Calendar, Notes, Reminders, Mail, Safari (Bookmarks and Reading List), Settings, app data, iWork, and backup data; saved in iCloud to automatically or manually download to all linked devices (iOS and Mac/Windows PCs). All iMessages and conversations will be synced between all iOS devices linked under a single Apple ID. The user can start a conversation on one device and continue it on another. Backup home screen layout on iCloud. Document sync. Ability to buy more storage. Free upgrade to 256 kbit/s bit rate for iTunes purchased songs if backing up on iCloud. File names in iCloud Storage are case-sensitive. Documents/data can now be selected to sync with iCloud account. Option to disable iCloud Sync via cellular network to save cost, especially if roaming. Game Center Photos for Friends. Ability to make the user's Profile public or private. Points in Game Center: shows how many points the user has on the home screen of Game Center. Sort and view Friends on the basis of Points. Friend recommendations. Game recommendations. Games can be purchased from within Game Center. New Friend requests screen. Native support for turn based games. Settings Help Center: learn more about every option under settings app to explore more about it. New menu under Location Services, named System Services, where some services can be toggled on or off (such as setting the time-zone, location-based iAds, Diagnostics, etc.). Hearing Aid Mode. Ability to rename the device. Ability to set up an AirPort base station or Time Capsule devices. Ability to organise Notification Center items "Manually" or "By Time". Can select which apps can be included in Notification Center. Can select which type of notification will be used for each app: banner notification, classic pop-up style notification, or no notification. Ability to turn off app badges. On the "Ringtone" and "Text Tone" page, instead of showing "new", they are all in one category now. Custom sounds for New Message, New Voicemail, New Mail, Sent Mail and Reminders alerts. Ability to purchase text, email, and voicemail alert tones. Under "Mail, Contacts, Calendars", on the bottom it shows "Reminders" and gives an option to Sync. In the "Messages" section, the "Alerts", "Show Preview", and "Repeat Alert" options have been removed. The Usage screen is improved and now shows how much of the memory is consumed by each app. Storage usage clean up. Backup to iCloud shortcut added. Software Update menu added. This allows easier and faster updating of devices independently, without a computer with iTunes installed; the update downloads directly to the iOS device; needs Wi-Fi or cellular network connection. Photo Stream settings. New purchases Settings; automatically download new purchases made on other devices (for music, apps, and books). This can also be enabled or disabled for use on cellular when not connected to Wi-Fi. Twitter sign-in OS-wide with support for multiple Twitter accounts. Ability to set left or right for mono audio. Ability to turn on/off sending of iOS diagnostic data to Apple. Keyboard Ability to create keyboard shortcuts to replace custom phrases. By default includes "omw" which expands to "On my way!". Emoji keyboard no longer needs an app to enable it (regarding non-Japanese devices). Define the user's own words in Offline Dictionary. New keyboard with prominent # (hash-tag) and @ (mention) buttons for Twitter app similar to the ".com" button when entering an address into the Safari address bar. New Chinese-Pinyin keyboard spreading. Quick Chinese input method. List of associated words show on the top of Chinese input keyboard. Function to convert voice to text P4S PC-Free iTunes/USB no longer needed to activate new devices via a computer. New welcome screen when using the device for the first time (or after resetting a device). Ability to start fresh with no need to tether it to iTunes. Option to restore all data on a device from an iCloud backup through a simple iCloud sign in. Ability to wirelessly sync to iTunes over Wi-Fi added (an initial tethered sync is needed to pair them together and the setting must be enabled in iTunes). OTA delta updates: from iOS 5 forward, devices can now self-update the system software right on the device itself through Wi-Fi or 3G; no iTunes or computer needed. YouTube Ability to play 480p/720p videos over 3G (iPhone only).[80] Scrolling titles for YouTube videos. Seek bar fine scrubbing visual notification has been added. FaceTime Improved video quality. Ability to set the FaceTime caller-ID to be the user's email or phone number. Ability to mirror the FaceTime call on large screen.[81] iTunes/App Store iTunes Tone Store. New Purchased History section. Genius support for finding songs and apps similar to ones users have purchased formerly. Ability to completely disable in-app purchases. iTunes password prompt. Restrictions with password needed for purchases if enabled. Shows "Install" instead of the price for formerly purchased apps. Shows "Installed" for installed apps. Additional "iForgot" button on App Store if a user has forgotten their Apple ID password. Simultaneous app downloads. Custom tones for almost everything under "Sounds" with "Buy more tones" button. Music app now has a "Store" button that goes to the iTunes Store. Contacts Add family relations ("related names") to contacts. Add social media info into contacts. VoiceOver VoiceOver item chooser. VoiceOver action support. Arabic language support for VoiceOver. Option to speak text selection. New voices for VoiceOver. Bluetooth AVRCP 1.4 supported (sends track and artist info to supported devices). Minor improvements/bug fixes New rounded UI switch graphic. Ability to use the device while syncing. Spotlight search now includes Reminders and searches through Messages. Built-in system-wide dictionary; in the typical Cut/Copy/Paste pop-up when selecting text, there is a new option to "Define". Define brings up a view with definition of the selected word. Ability to delete app data. Fixed a bug that caused a song to crash for a second while switching to another application in the multitasking tray. Apps fade to home screen when they crash, rather than flicking off. Option to automatically set the time (new for Wi-Fi-only devices). Switching the ringer switch to "on", the indicator now shows the volume level bar (iPhone and iPad only). Screenshots are saved using the device's orientation (formerly, all screenshots were saved as if the device was in portrait mode). Hindi virtual keyboard based on standard InScript layout. (iPhone and iPod Touch only). Notification Center Option to display Stock and Weather widgets in Notification Center. Swipe weather left or right to get five-day forecast. Calendar Week view in landscape orientation. Clock Ability to pause Timer. Tbilisi, Georgia added to World Clock. Weather Weather for user's current location.[82] Hourly updated weather of 5-day forecasts. Stocks Real-time stock updates.iPhone only Siri voice control. P4S Classed as beta software during whole of iOS 5.x. Voice commands are now executable for different users on device. Device can now translate voice into text and vice versa. Available in English (UK, US, and Australia), French, and German. Phone Enable/disable option for voice-dial if the device is set to security with passcode lock. Delete individual calls in "Recents" Phone app. Clear button is now Edit button. Make FaceTime calls without a micro-SIM card. "Unsecured Calls" warning lets users know if they are talking on unencrypted networks. Shows city name or area/county in addition to number for unknown calls. Time-mid call invitation alerts. Messages Option to have iMessages sent as SMS when iMessage is unavailable (enable in Settings). Placeholder text indicates whether sending "iMessage" or "Text Message" (i.e. SMS/MMS message) in Messages. SMS/MMS bubbles are green in colour, iMessage bubbles are baby blue. General Customised vibrate alert patterns (can be set per-contact). LED flash alerts. P4 P4S Assistive touch gestures (iPod Touch only). New "Message" option to use iMessage using an email ID, in Settings (for iPod Touch and iPad only). Keyboard Split keyboard: swipe up or pull apart to split keyboard in half. Undock keyboard option: keyboard can now be moved up and down the screen. Mail Swipe right to reveal Inbox when in portrait orientation. Calendar Swipe left and right to change months. Year view with heat map colours to show busy/free status. Safari Tabbed browsing. Tapping and holding the back or forward buttons in Safari will show recently visited website history. Tapping and holding the new tab button will show a list of recently closed tabs. Music All-new user interface. Quickly skip to prior or next track by swiping left or right (respectively) on album art when in the Now Playing screen in the Music app. Picture frame Ability to pick an event. Multitasking gestures with 4 or 5 fingers: (iPad 2 only until iOS 5.0.1) Pinch to return to the Home screen. Swipe up to open multitasking tray. Swipe left or right to move between open apps. AirPlay mirroring Ability to connect with AirPlay to an Apple TV; whatever is displayed on an iOS devices screen is mirrored on the TV.P4S S2 Videos Ability to play 1080p content. Security Notes 5.0.1 9A405 P3 P4 P4C S1 S1C S2 S2C S2D9A406 P4S November 10, 2011; 9 years ago (2011-11-10) (9A405)December 12, 2011; 9 years ago (2011-12-12) (9A406) Bug fixes, security update Attempted to fix battery drain bug. Fixes bugs affecting iCloud mail push. Adds Multitasking Gestures (for original iPad). Fixes bugs with Documents in the Cloud. Improves voice recognition for Australian users using dictation. Contains security improvements. Activates the LED camera flash, whether the speaker is muted or not, for incoming calls and messages, when activated within the Accessibility sub-menu. Introduces a new way for developers to specify files that should not be backed up.iPhone 4S only (Build 9A406) Attempts to fix "Invalid Sim" and "No SIM card installed" issues. Baseband update. Security notes: iOS 5.1 iPad: 1st 2 3rd iPhone: 3GS 4 4S iPod touch: 3rd 4th Limited support on and iPod Touch (3rd Generation) Version Build Release date Features 5.1 9B176 P3 P4 P4C P4S S1C S3L S3D9B179 P4S March 7, 2012; 9 years ago (2012-03-07) Initial release on iPad (3rd generation). App Store App Store download limit over 3G was increased to 50 MB from 20 MB. Clock "Sleep iPod" function in clock application changed to "Stop Playing", this function also works for applications other than Music. Camera Redesigned Camera app (for iPad). S2 S2C S2D S3 S3L S3D Camera shortcut on lock screen now always present, and has a new slide-up gesture to activate (iPhone and iPod Touch only). P3 P4 P4C P4S T4 Face detection and video stabilization P4S S3. Camera face detection now highlights all detected faces P4S S3. General License column added under the About menu. Improved Location Services. Maps Minor UI changes in Maps. Music Fixed slowdown when changing to landscape (Cover Flow) in Music app. Shake-to-shuffle bug fix, which formerly caused the Music app to freeze. Smart playlists bug fix. Genius Mixes and Genius playlists for iTunes Match subscribers. Podcast controls for playback speed and a 30-second rewind (iPad). Network Baseband updates for some devices. Carrier updates (e.g. AT&T 12.0, Verizon 12.0). 4G icon shown when on AT&T's HSPA+ network P4S. Fixes iPhone 4S support for Caller ID Name Display (on supported carriers – e.g. Rogers and Fido in Canada). Restores the 3G switch P4S. Phone Combined Voice/Data Roaming Switch (on iPhone). Photos Photos can now be deleted from Photo Stream. Safari Safari address bar now has "Go to this address" instead of a blank bar. Bookmarks list no longer automatically displayed on browser opening if there are no open pages in Safari. Security Updates A string format exploit in an application named racoon that allowed executing unsigned code at boot-up is fixed. A ROP exploit that allowed executing payloads vnimage is now fixed. A flaw that was executed by mounting a maliciously crafted disk image and may lead to a device shutdown or arbitrary code execution is now fixed. A logic issue with debug system calls that could bypass the iOS sandbox restrictions is fixed. WebKit security updates. A format string vulnerability related to the handling of virtual private network (VPN) configuration files is now fixed. CFNetwork security updates. Siri Enhanced Siri dictation support during text input "on supported devices" (iPhone 4S in 2011, iPad (3rd generation) in 2012).[83] Japanese language support for Siri (availability may be limited during initial rollout). Video Audio for TV shows and movies optimized to sound louder and clearer (on iPad). Other Setup Assistant bug fix. Attempts at fixing battery life; results are mixed.[84][85] Bluetooth status bar indicator bug fix. Improved Assistive Touch. Fixed bug that allowed nested folders (folders within folders), including Newsstand. Fixed bug that caused stuck keys on Apple Bluetooth Keyboards during wakeup from low power states. Redesigned fonts for a few non-Latin languages. Security Notes 5.1.1 9B206 P3 P4C P4S S1 S1C S2 S2C S2D S3 S3L S3D9B208 P4 May 7, 2012; 8 years ago (2012-05-07)May 25, 2012; 8 years ago (2012-05-25) Final release supported on iPad (1st generation), and iPod Touch (3rd generation) Bug fixes, security update Fixes battery drain bug. Improves reliability of using HDR option for photos taken using the Lock Screen shortcut. Fixes bugs that could prevent switching between 2G and 3G networks S3L S3D. Fixes bugs that affected AirPlay video playback in some circumstances. Improved reliability for syncing Safari bookmarks and Reading List. Fixes an issue where "Unable to purchase" alert could be displayed after successful purchase. Added a decline button to calls. Podcast playback position now synced between iOS devices (presumably via iCloud).iPhone 4 and iPhone 4S only Attempt to fix bugs with echoes in calls. Security Notes iOS 6 Apple announced iOS 6 on June 11, 2012, at its annual Apple Worldwide Developers Conference (WWDC) event, and it was released to the public on September 19, 2012, alongside the iPhone 5, iPod Touch (5th generation), and iPad (4th generation). With this release, Apple dropped support for the iPod Touch (3rd generation) and the iPad (1st generation) due to performance issues, and offered only limited support on the iPhone 3GS and iPod Touch (4th generation).[citation needed] The iPhone 4 onwards, the iPod Touch (5th generation), the iPad 2 onwards and the iPad Mini (1st generation) were fully supported.[86] iOS 6.1.6 was the final release supported for the iPhone 3GS and iPod Touch (4th generation). It became unsupported on November 23, 2016. iOS 6.0 iPad: 2 3rd 4th Mini iPhone: 3GS 4 4S 5 iPod touch: 4th 5th Limited support on iPhone 3GS and iPod Touch (4th generation) Version Build Release date Features 6.0 10A403 P3 P4 P4C P4S T4 S2 S2C S2D S3 S3L S3D 10A405 P5 10A406 T5 September 19, 2012; 8 years ago (2012-09-19) Initial release on iPhone 5, iPod Touch (5th generation), iPad (4th generation) and iPad Mini (1st generation) Not all features available across devices.[87] SiriP4S P5 T5 S3 S4 M1 Siri now available on iPad (3rd, 4th generation and Mini) and iPod Touch (5th generation). Additional country and language support for Canada (English and Canadian French), China (Mandarin), Hong Kong (Cantonese), Italy (Italian), Korea (Korean), Mexico (Spanish), Spain (Spanish), Switzerland (Italian, French, German), Taiwan (Mandarin), US (Spanish). Local search works around the world. Siri can now provide information on sports leagues such as NFL, MLB, NBA, NHL, WNBA, NCAA basketball and American football, the Premier League, MLS, and more. Ask for player stats, team rosters, game schedules and team standings. Siri can provide information on movies like find movie reviews, ask about actors and actresses, play a movie trailer, get showtimes for movies and find a theater/cinema. Yelp! built-in reviews and launch to open up more information and create reservations with OpenTable. Restaurants are listed by reviews and nearest with more information. Apps can be launched by saying "run " or "open ". Siri can send Tweets and update Facebook status. Siri can read items from Notification Center. "Eyes Free", allowing car companies to build-in Siri integration; with a mic button on steering wheel, and for launching Siri functions, and screen disabling during Eyes Free mode. Facebook integration Share to Facebook from Share button and apps can access Facebook accounts; similar to Twitter integration in iOS 5. Integrated into Notification Center. Integrated in Siri and APIs for third-party apps. Contacts synced from friends' contact information on Facebook. Facebook Events and birthdays in Calendar. "Like" button on apps and content from the App Store and iTunes Store. Twitter Icon matches Twitter's new logo. Passbook (iPhone and iPod Touch only) New app that manages a user's boarding passes, movie tickets, retail coupons, loyalty cards, etc. in one app.[88] Store coupons and gift cards in a wallet-like app (e.g. Apple Store, Starbucks, Target, etc.). Passes are updated in real time if changes are made (e.g. spending money on a store card, flight time, gate change, etc.). Passes are location and time-based, appearing on the lock screen when relevant. Notification Center Update Facebook status or Tweet from new widget. Message previews can now be toggled on/off for alerts. Calendar now shows the current date in the title bar. Shows ending times for Calendar events. Added "Do Not Disturb" for Notifications. (See Settings, below, for more information) Photos Shared Photo Streams. Photos can be shared with other contacts. Photos shared can be commented on and liked. Notifications are enabled for when a contact shares a photo with the user. New sharing menu, using new icons. Constantly shows a button to create new Albums. Sharing menu has options for Twitter, Facebook, Weibo (when Chinese keyboard is enabled), Copy, Slideshow, AirPlay, Use as Wallpaper, Print. Videos can be uploaded to Youku and Tudou when Chinese keyboard is enabled. Music New streamlined UI with white and black themes. Late Night Mode equaliser. Redesigned rewind, play/pause, and fast forward controls (videos kept the same touch controls from prior iOS software.) Settings "Bluetooth" moved to top of Settings list. Added "Do Not Disturb" mode, allowing users to avoid calls and notifications unless calling parties are on the user's Favorites group. A crescent moon icon will appear in the status bar when enabled. Has no effect when the screen is on. Added in Notifications: Government warnings and AMBER Alerts (toggle on/off). New Privacy Controls. Apps must now ask for permission to access the users photos, calendars, contacts and reminders. Revised Settings icon, similar to that of the OS X System Preferences app icon. New gear animation in the Settings app shown whilst downloading an over-the-air update. In the Usage menu, Time Since Last Full Charge, showing "Usage" and "Standby" time, is now available for all devices. Enable 3G under Cellular setting (iPhone). Maps menu for changing voice volume, map label language, label size, and distance units (iPhone 4S and later, iPad 2 and later, and iPod Touch (5th generation)). Settings categories now separated into groups on iPad. "Advertising" option added under "About", just above "Diagnostics & Usage" to enable or disable advertising networks from serving "targeted ads". Phone Adds phone icon on lock screen for showing additional ignoring options, similar to the camera sliding icon on the lock screen in iOS 5.1. When ignoring a call, the user can message the caller by sending one of three customizable quick SMS responses or set a Reminder to call them back later. Phone call doesn't take up the entire lock screen when a call is incoming. (QuietIncomingCallsonLock) New white themed UI for dial pad. Maps Maps are now Apple-sourced instead of using Google sources. Turn-by-turn Navigation with Siri Voice powered by TomTom (iPhone 4S and later, iPad 2 and later, and iPod Touch (5th generation)), voice directions (iPhone 4S and later only). 3D overview for maps (iPhone 4S and later, iPad 2 and later, and iPod Touch (5th generation)). Satellite view. Flyover view for maps gives 3D satellite view.P4S P5 T5 S2 S2 New Map icon. Lock Screen integration for turn-by-turn navigation (iPhone 4S and later, and iPad 2 and later), voice directions (iPhone 4S and later only). Yelp!integration available for businesses provides reviews and information on the business. Allows the user to launch Yelp!app from Maps. Info cards of businesses. Traffic crowd sourcing with anonymous data sent from all iPhones, also adds events of traffic slow-down. Re-routing around traffic accidents and road work. Tapping search bar will automatically give directions from current location to back home, can be changed. FaceTime Make FaceTime calls over cellular (some carriers need certain data plans, like AT&T).P4S P5 S3 Mail VIP inbox stars important emails from user defined VIP group members. Flagged emails inbox. Attach photos and videos quickly with a long-press. Open password-protected Microsoft Office documents. Added Pull-to-Refresh gesture to update Mail accounts. Per account Signatures. Holding the Compose button now shows a list of all draft messages, rather than just the most recent draft message. Email addressed used can now be removed from the Recent list Contacts Search All Fields. Custom Vibrations for Text Message Notifications. Reminders Manual Reader. Manual location based reminders. Location based reminders (iPad (3rd generation); formerly only available for iPhone 4 and iPhone 4S) (option removed in Golden Master). Safari Fullscreen landscape mode (for iPhone and iPod Touch). iCloud tab syncing across iOS devices and Macs. Offline Reading List caches the user's Reading List for later use, even when not connected to the Internet (not available for iPhone 3GS and iPod Touch (4th generation)). Smart App Banners: Banners on mobile webpages prompt users to download the website's native App Store counterpart in the App Store. Faster JavaScript engine. Apps in search results. Support for photo upload via Camera Roll to web forms with elements. Support for up to 24 open tabs on iPad (up from prior limit of 9). Bookmarks window now displays tabs along the bottom of the window to switch between viewing "Bookmarks", "History" and "Reading List"; formerly was listed all in one source list (iPad 2 and later only). Bookmarks button changes to Reading List icon with a progress bar when updating the Reading List for offline use (iPad 2 and later only). Long press the "Back" or "Forward" button to reveal the browsing history (for iPhone 3GS and later, iPod Touch (4th generation) and later. formerly only available for iPad since iOS 5.x). App Store New UI. Darker theme. Applications can be purchased from within apps. Installing an app no longer returns the user to the home screen; apps will download and install while continuing to browse the store. Can update apps without entering iTunes password. Tap the screenshots of app to enter Full Screen mode. Already installed apps now show an "Open" button that can be tapped to open the respective app, as can tapping the app's icon. Developer page on the bottom of app details screen (now available for iPhone and iPod Touch; formerly only available for iPad). Update History on the bottom of app details screen. Related item on the middle of app details screen. Share sheet button on the right top of app details screen. iTunes New UI. Darker theme. Content can be purchased from within apps (formerly available since iOS 5.0). Accessibility Guided Access Allows user to lock exiting of the app in Single App Mode. Allows users to disable certain controls within a specific app. Locks the home button from being used, so as to function like a kiosk. Speak Selection Allows selected text to be read using the same Text-to-Speech that powers VoiceOver. Allows speech rate and dialect to be changed and words to be highlighted as they are read. When in use, infers language from context, and when no context is available, offers a choice. Pause/resume is available. iCloud Personal Dictionary synchronisation. Passbook synchronisation. Clock Set a song as an alarm sound. Clock app for iPad. Weather New UI. Stocks Historical data can be viewed for the past 5 and 10 years when in landscape mode. YouTube Apple's integrated app removed, due to an ended licensing deal with Google. Game Center Game Center challenges. Facebook friends integration. Opportunity to delete games without deleting the apps from a device. Camera HDR improvements. Darker theme (iPhone and iPod Touch only). Panorama Mode (iPhone 4S and later, and iPod Touch (5th generation) only). Ability to take pictures while recording video (iPhone 5 only). Face detection is now on the iPad 2. Calendar Add Facebook events and friends' birthdays into Calendar. Security Kernel ASLR added. Other Lost Mode: If an iOS device is lost, Lost Mode triggers an attention grabbing sound, prompting the person who finds the iPhone to call a specific number set by the owner remotely. Additional features for China (Baidu search engine added, China social network, improved inputting method). Weibo Integrated (when Chinese Keyboard enabled). VoiceOver improvements. Custom Vibrations for Alerts. Global Network proxy for HTTP. IPv6 support for Wi-Fi and LTE. New Sharing menu using new icons across all stock apps. Auto Correction for every keyboard. Bluetooth MAP support. Improved keyboard layouts. New Thai keyboard (full keyboard). French, German, and Spanish dictionaries. (Download necessary at time of first use) "Made For iPhone" specification for hearing aids. A blue "New" ribbon over newly installed apps. Status bar reflects the color of the top-most banner in 3rd party apps. (iPhone and iPod Touch only) Spotlight lists name of folder an app is located in. Setup for iMessage and FaceTime added to initial device first time setup. Folders now let the user store up to 16 apps (iPhone 5 and iPod Touch (5th generation)). Security Notes 6.0.1 10A523 10A525 P5 10A8426 M1C S4L S4D November 1, 2012; 8 years ago (2012-11-01) Bug fixes, security update Fixes a bug that prevents iPhone 5 from installing software updates wirelessly over the air. Fixes a bug where horizontal lines may be displayed across the keyboard. Fixes an issue that could cause camera flash to not go off. Improves reliability of iPhone 5 and iPod Touch (5th generation) when connected to encrypted WPA2 Wi-Fi networks. Fixes an issue that prevents iPhone from using the cellular network in some instances. Consolidated the Use Cellular Data switch for iTunes Match. Fixes a Passcode Lock bug which sometimes allowed access to Passbook pass details from lock screen. Fixes a bug affecting Exchange meetings. Adds Finger-Rejection.[89] Security Notes 6.0.2 10A550 M1 10A551 P5 10A8500 M1C December 18, 2012; 8 years ago (2012-12-18) iPhone 5 and iPad Mini only Bug fix Fixes a bug that could impact Wi-Fi. iOS 6.1 iPad: 2 3rd 4th Mini iPhone: 3GS 4 4S 5 iPod touch: 4th 5th Limited support on iPhone 3GS and iPod Touch (4th generation) Version Build Release date Features 6.1 10B141 P3 S2 S2C S2D S3 S3L S3D S4 S4L S4D M1 M1C T510B142 P4S10B143 P5 T4 10B144 P4 P4C January 28, 2013; 8 years ago (2013-01-28) Larger "Report a Problem" button in Maps. New music controls on lock screen when the home button is double-pressed. Siri can now purchase movie tickets via Fandango (USA only). LTE now works with several European, African, Asian and American carriers. Individual songs can again be downloaded or deleted when using iTunes Match. An empty Passbook will automatically add a sample pass explaining passbook functionality. The pass text changes slightly for users in British English speaking countries, changing "movie tickets" to "cinema tickets" in the first sentence, and "theaters" to "cinemas" in the last sentence. Reset Advertising Identifier button now works. New cellular data option for iTunes (it is available from iOS 6.0). When setting up an iOS device for the first time with iCloud, it will now ask the user to confirm the Apple ID password for FaceTime and iMessages. It will also ask to confirm how the user would like people to reply, and informs the user that these settings can be changed at any time later on. Fixed an iPhone 5 bug that prevented the phone from reconnecting to the cellular network when it lost connection for an extended amount of time. "Accessory attached" splashscreen removed. Bi-directional control now possible. Fixed a Bluetooth A2DP trigger delay – the beginning of the audio stream cut off (e.g. when navigating turn-by-turn, the user heard "HT in .5 miles" instead of "TURN RIGHT in .5 miles" in the A2DP headset/speakers)[90] Security fixes. Security Notes 6.1.1 10B145 P4S[91] February 6, 2013; 8 years ago (2013-02-06) iPhone 4S only Bug fix Fixes an issue that could impact cellular performance and reliability. 6.1.2 10B146 P3 P4 P4C P4S P5 T4 T5 S2 S2C S3 S3L S3D S4 M1 10B147 S4L S4D M1C February 19, 2013; 8 years ago (2013-02-19) Bug fix Fixes an Exchange calendar bug that could result in increased network activity and reduced battery life. 6.1.3 10B329 P3 P4 P4C P4S P5 T4 T5 S2 S2C S3 S3L S3D S4 M1 S4L S4D M1C March 19, 2013; 8 years ago (2013-03-19) Bug fixes Fixes a bug that could allow someone to bypass the passcode and access the Phone app. Improvements to Maps in Japan, Turkey, Germany and Poland Security fixes. Fixes Facebook App Patches exploits used by original evasi0n jailbreak, but is jailbreakable via the p0sixspwn jailbreak. Security Notes 6.1.4 10B350 P5 May 2, 2013; 7 years ago (2013-05-02) iPhone 5 only Bug fix Updates the audio profile for speakerphone.[92][93] EOL updates 6.1.5 10B400 T4 November 14, 2013; 7 years ago (2013-11-14) iPod Touch (4th generation) only Bug fix Fixes an issue that causes FaceTime calls to fail for some users on the iPod Touch (4th generation). 6.1.6 10B500 P3 T4 February 21, 2014; 7 years ago (2014-02-21) iPhone 3GS and iPod Touch (4th generation) only Final release supported on iPhone 3GS, and iPod Touch (4th generation) Fix CVE-2014-1266, a bug in Secure Transport that can cause it to fail to properly authenticate a SSL/TLS connection. This bug also occurred in iOS 7, and was caused by a duplicate goto fail; statement in the source code that caused critical parts of the certificate verification code to become unreachable code. This bug is informally known as the goto fail bug as a result. iOS 7 Apple announced iOS 7 on June 10, 2013, at its annual Apple Worldwide Developers Conference (WWDC) event, and it was released to the public on September 18, 2013, alongside the iPhone 5C and iPhone 5S. With this release, Apple dropped support for the iPhone 3GS due to hardware limitations and the iPod Touch (4th generation) due to performance issues. iOS 7 has limited support on the iPad 2 and the iPhone 4 since they do not support Siri. However, other devices from the iPhone 4S onwards, iPod Touch (5th generation) onwards, the iPad (3rd generation) onwards, and the iPad Mini (1st generation) onwards were fully supported. The release of iOS 7.0.3 brought support for the iPad Air and iPad Mini 2. iOS 7.1.2 was the final release on the iPhone 4. It became unsupported on November 23, 2018. iOS 7.0 iPad: 2 3rd 4th Air Mini (1st, 2) iPhone: 4 4S 5 5C 5S iPod touch: 5th Limited support on iPhone 4 and iPad 2 Version Build Release date Features 7.0 11A46511A466 September 18, 2013; 7 years ago (2013-09-18) Initial release on iPhone 5C and iPhone 5S UI Flat design and move away from skeuomorphism in general (exceptions exist – for a move towards more skeuomorphism, see for example the Countdown with a new skeuomorphic 3D animation of a spinning wheel). System Helvetica Neue Regular font. Full Screen apps that make use of the system status bar and navigation bar. Translucent design in tab bar, navigation bar, status bar, system keyboard, Control Center, and Notification Center (some translucent layers not on the iPhone 4, the iPad 2 and the iPad 3 due to hardware constraints). Opaque design in Alert view, Action Sheet and Share Sheet. Borderless buttons in general. Back navigation gesture by swiping from left edge of the screen. New UI for arranging tab-bar icons. System-wide dynamic font size, configurable in Settings. Enhance the viewing experience of non-iPad apps on iPad 2 and iPad Mini, remove the 1x and 2x toggle, apps are opened in '2x' mode by default on iPad 2 and Mini. Home Screen Spotlight Search is now accessible on each screen by pulling it down. "New" banner on newly installed apps have been replaced with blue dots. Brand new icons for built-in apps. Newsstand is now a dedicated app instead of a folder. Control Center A unified screen to quickly access toggles and controls for system settings and services, and for using AirDrop and AirPlay. System wide, accessible by swiping upward from the bottom of the screen. Accessible in the lock screen. Flashlight (device-specific features that come with physical camera) toggle button. Landscape support. A grabber in full screen apps. Mute/silent toggle button in iPad. AirDrop P5 P5C P5S T5 S4 M1 Integrates Apple's ad hoc Wi-Fi sharing feature AirDrop (iPhone 5 and later, iPod Touch (5th generation) and later, iPad (4th generation) and later, and iPad Mini (1st generation) and later). Alert view, for receive invitation from other devices, option to accept/cancel. Options to set discoverable: Off/Contacts only/Everyone. Inter-app Audio Register audio streams to share with other apps. Provides for MIDI control of audio rendering, remotely launching other registered Inter-App Audio apps. Notification Center Accessible in the lock screen. Today tab, for previewing the events calendar, stocks, and tomorrow's events; provides traffic info on oft-visited places. Missed filter: can filter list to see notifications that occurred when phone was not actively in use. Bounces when swiped down quickly. Folders Unlimited number of apps via folder subpages. Newsstand app can now be moved inside any folder. Transparent background. Folders change color when apps are downloading and clock-like animated progress graphic is superimposed over folders that have actively downloading apps. Alert A countdown for snooze. Calculator New feedback when pressing a key. Toggle landscape mode button. Spotlight Accessible on every page of the Home screen by swiping downward from anywhere. New animation. Multitasking Redesigned switcher, with horizontal scrolling for previewing all running apps, and swipe upward gesture to stop any running apps. Can close multiple apps simultaneously by swiping with multiple fingers. Landscape switcher. Background App Refresh; fetches data in the background based on network connectivity and user habits. Use apps while the app is updating. Wallpapers New wallpapers. Dynamic wallpapers.P4S P5 P5C P5S T5 S2 S3 S4 M1 Gyroscope-responsive parallax wallpaper effect, based on user's movement.P4S P5 P5C P5S T5 S2 S3 S4 M1 Weather Dynamic animation for different weathers (iPhone 4S and later and iPod Touch (5th generation)).P4S P5 P5C P5S T5 Shows sunrise/sunset humidity, chance of precipitation, and wind speed. Can see multiple locations simultaneously when the menu icon is selected. Can select GPS icon at bottom to immediately see weather for current location. Phone Block list. Contact pictures on Favorites. Transparency in the number pad button when pressing. Phone History and Voicemail Info options allow one to return the call in multiple ways including call back, FaceTime and Messaging. Contacts New fields in Contacts: "Add Social Profile", and "Add Instant Message". "Chat", "FaceTime", "Mail" buttons next to the contact information; no longer need to scroll down to the bottom. Send contacts through AirDrop. FaceTime FaceTime Audio. Block list. A dedicated app on the iPhone, like the prior version on iPod Touch and iPad. Messages Long SMS. Block list. No longer have to scroll to the top to access "Call", "FaceTime", and "Info". Contact pictures in group chats. Ability to see exact time of when each message was sent by dragging conversation bubbles to the left. Event and address detection in the message context, tap to open in Calendar and Maps. A contact with a nickname will appear in Messages under the nickname, rather than the full name. New animation when compressing video to be shared. Safari Full screen browsing in portrait mode (formerly only available in landscape). Unified text field for both URL and search. Bookmarked website thumbnail icons appear when text field is activated. Top-hit, Google suggest, Bookmarks, and History appear on the unified text field while typing. Preview tabs on iPhone and iPod Touch are no longer limited to 8. Preview tabs use new 3D vertical animation for previewing the opened tabs; long press to edit positions, swipe to remove. Reading List shows website thumbnails on the right. Scrolls articles one-by-one vertically from Reading List, as per OS X Mavericks. Swipe gestures for back/prior history, as per OS X. Parental controls. Private button: enables "Do not track me" feature per website within the app; formerly, configuration appeared in Settings for every website. Recent links: a reading list of all user's friends on Facebook or Twitter post. Reading List button: new round glasses icon pays tribute to Steve Jobs. The .com button removed and replaced with a simple period button. The .com, .net, and .org domain extensions can be accessed by holding down on the button. Bookmarks/Reading List/Shared Links tabs re-ordered/slightly tweaked. Bolder loading bar, private browsing UI tweaks and tab/bookmark changes on the iPad . iCloud Photo Stream video support, and more than one contributor per photo stream. Notification Sync across different iCloud devices. Maps Automatic Day/Night Mode that responds to ambient light and current time to switch between day and night color schemes. Turn-by-turn walking directions, with estimated time.

view added to select iPhones.P6P Control Center UI Changes in Control Center: the buttons no longer have an outline. Screen is no longer dimmed when brightness control is selected. iTunes Radio "buy" song button in Control Center. iTunes Radio skips remaining displayed in Control Center. Bringing up the Control Center is now much easier while the keyboard is up. Messages Ability to send voice messages instantly by using a new "microphone" button to the right of the text entry field. Pressing and holding on the microphone button lets you record your voice and then swipe up to send it. Messages can be listened to by either pressing play or raise to listen. Messages can also be listened and responded to on the Lock Screen by raising to listen and raising to respond. Ability to send photo and video messages instantly by using the "camera" button to the left of the text entry field. Pressing and holding on the camera button lets you take a photo or record a video and instantly send it. Tapping the camera button shows the most recent photos in your camera roll. Options are also present for taking a new photo or video and to view your entire photo library. Multiple photos and videos can be selected to send at once. A new details menu is available for each conversation which contains many new functions: You can now title group message threads. A list of everyone participating in a message thread is listed with buttons to call, FaceTime and view their full contact card. Ability to drop or add people to groups. Ability to leave groups. Send current location. Can share location with an individual or group for one hour, until the end of the day or indefinitely until you choose to stop. Do Not Disturb option per group. A collection of all photos that have been sent in a message thread. Batch save/delete all images in a message thread. Message threads are now synced between all of your devices. Images in conversations are now much larger. Scrolling to the top of a message will now automatically cause older messages to load. Can mark all texts as read. Added options to automatically delete standard messages after 1 year, 30 days or never. Added options to automatically delete video/audio messages after 2 minutes or never. Faces of contacts display next to contact name on select iPhones.P6P Music Left swipe to delete albums. Can add music to a playlist from another playlist. Updated Icon. Multitasking UI The faces of recently conversed people now appear above the open applications, and with a swipe to the right one can also access their favorites. The animation speed when entering and leaving the app switcher is now much faster. Share sheets Share sheet action icons are now redesigned. Share sheet icons can now be rearranged and hidden. UI Improved animation system. Gestures such as bringing down Notification Center won't be blocked by an animation, such as the home screen icons flying in. Landscape view added to iPhone 6 Plus. FaceTime Call waiting. FaceTime Audio conference calls. H.265 (HEVC) support added iPhone 6 and iPhone 6 Plus. Slight tweaks to the interface. Mail Can swipe to the left for options to flag it for follow-up, move it to a folder or delete. Can swipe all the way across the screen to the left to delete immediately. Can swipe all the way across the screen to the right to mark as read/unread. Ability to swipe mail compose sheet down allowing access to the rest of ones mailbox to gather the information needed in order to compose the message. When Mail recognizes a reservation, flight confirmation, or phone number in an email, a notification appears at the top of the message. In order to add it to the calendar or contacts, one needs to tap the notification(s). Mail conversations are now threads. Individual threads can be set as VIP so that the user will receive a notification when a reply is received. Per thread S/MIME. Automatic reply messages. Can delete attachments. New mailboxes: Unread, To or CC, Attachments, Thread Notifications, Today. Notes Rich-text editing. Image support. Notification Center / Notifications Support for third-party widgets in Today view. Interactive notifications – one can take action on texts, email, calendar invitations, reminders, and messages from apps like Facebook and other third-party apps. Can be performed from within Notification Center by swiping a notification to the left to reveal actions available. Can be performed directly within an apps notification banner/alert all without having to leave the app one is in. Notifications in Notification Center can be individually dismissed. Removal of "Missed Notifications" section. iBooks Now pre-installed on iOS 8. Auto night mode. Books can now be categorized into series. Passbook Updated Icon.[101] Supports Apple Pay by taking a photo of the user's Credit/Debit Card and incorporating it into Passbook for NFC Payments P6 P6P.[102] A history of recent purchases made with Apple Pay is available within Passbook.P6 P6P Passbook "info" card now only displays if no other cards are present. Safari The Tab view from iPhone is now available on iPads.S2 S3 S4 S5 M1 M2 A search function to search through all open tabs has been added in Tab view on iPad and select iPhones.P6 P6P S2 S3 S4 S5 M1 M2 Two-finger pinch to reveal Tab view on iPads and select iPhones.P6 P6P S2 S3 S4 S5 M1 M2 New Sidebar that slides out to reveal bookmarks, Reading List, and Shared Links in landscape view on iPads and select iPhones.P6 P6P S2 S3 S4 S5 M1 M2 Address bar now hides when scrolling down on iPads.S2 S3 S4 S5 M1 M2 Spotlight Search is now available from Safari's address bar. Option to "Scan Credit Card" when filling out credit card info on a web form. WebGL support. APNG support. Private browsing per tab. RSS feeds in Shared Links. DuckDuckGo support. Option to Request the desktop site while entering in a web address. Option to add website to Favorites while entering in a web address. Swipe to close iCloud tabs from other devices. Hold the "+" (new tab button) in tab view to list recently closed tabs is now available on iPhone.P4S P5 P5C P5S P6 P6P T5 Can delete individual items from History. Safari now blocks ads from automatically redirecting to the App Store without user interaction. Bookmark icon updated. Improved, iPad-like interface available in landscape view on select iPhones.P6 P6P Maps Flyover city tours. Indoor Mapping – iOS 8 adds the M7 and M8 processor's and iPhone motion sensors to the CoreLocation API, allowing venue owners to create indoor positioning systems. SiriP4S P5 P5C P5S P6 P6P T5 S3 S4 S5 M1 M2 Hey, Siri – when plugged into power the user can say "Hey, Siri" and Siri will automatically be activated. Shazam song recognition. Purchase iTunes content. Download apps via Siri. Streaming voice recognition. 22 new dictation languages. Phone Wi-Fi calling (only for T-Mobile customers in the U.S.).[103] Person's name scrolls while in a call when all of it won't fit on screen at once. Can access full Phone app during a call. Return of full screen Caller ID. Accessibility Braille keyboard for direct 6-dot Braille. Gray scale mode. Improved zoom. Speak screen. Alex voice. New voices and gesture for speech accessibility. New options in AssistiveTouch (being able to call Notification Center and Control Center). Guided Access Exit Guided Access with Touch ID.P5S P6 P6P Time limits and countdown timer for Guided Access. Privacy Background location notifications – popup asking to "continue to allow" apps accessing Location information while running in the background.[104] More Location Services options per app. Camera added to Privacy settings. HomeKit added to Privacy settings. Health added to Privacy settings. Photos Camera Roll and My Photo Stream removed and replaced by "Recently Added, Videos, Recently Deleted" albums. Search Photos by location and more. Date, time and location information displayed. Photos can now be favorited. Photos and videos can be hidden from Moments. Hidden photos and videos get added to the "Hidden" album. New Albums added for Bursts, Slo-Mo Videos, and Time-Lapse Videos. Option to auto optimise storage on device by removing local copies of pictures and videos. Improved editing. Smart composition tools. Smart adjustments. Extension support. Voice Memos Play/Pause button next to the record button in Voice Memos. Lock Screen App shortcuts for Handoff on the Lock Screen. App shortcuts on the Lock Screen based on device location. Audio iMessages received while the phone is locked can be listened to by raising to listen and responded to by raising to respond. iTunes Radio "buy" song button on Lock Screen. iTunes Radio skips remaining displayed on Lock Screen. New animation when opening apps from the Lock Screen. Access to Medical ID from emergency dialer. New "Slide to Unlock" text in certain languages. Keyboard QuickType – as one types, they see choices of words or phrases one would probably type next, based on their past conversations and writing style, using a more formal language for mail, and a casual one for Messages. The system also adjusts the system based on the person one converses with, and the region of the user (currently available in 14 countries). QuickType can be hidden by swiping down. QuickType can be toggled on or off from within the keyboard switcher. Extra functions added to the keyboard on select iPhones.P6 P6P Smiley icon for when emoji keyboard is the only alternate keyboard set up. Becomes a globe icon when multiple keyboards are set up. Streaming voice recognition for Speech to Text. iOS 6 keyboard no longer appears in apps that are not optimized or updated to a version optimized for iOS 7 or higher. New keyboards (Indian language and Indian English keyboards, Tagalog, Irish Gaelic, and Slovenian). Family Sharing – a service of sharing purchases from iTunes between up to 6 people. Supports iBooks purchases, iTunes purchases, and App Store purchases. All group members must pay for family purchases with the same credit/debit card. Ask To Buy – a parent can approve youngsters' spending right from a parent's device. Coincides with iCloud Photo Library – automatically sets up a family photo stream where the user can share photos, videos, and comments, and all the family photos are available from any device within the family. Offers shared calendar and Reminders. Family Sharing can automatically share the user's location with the family members, or keep their location hidden. With the Find My iPhone app, family members can use their devices to locate one that's lost and have it play a sound. Apple IDs for youngsters under age of 13 years are now possible due to Family Sharing. Health app –shows a dashboard of all the fitness and health data of the user (iPhone and iPod Touch only).[105] Shows the heart rate, calories burned, blood sugar, cholesterol, etc. of the user. One can create an Emergency card with medicinal details, from within either the application or the lock screen. Natively tracks steps taken and other movement activity within the Health app. Export health data. Continuity – iPhone, iPad, iPod Touch, and Mac communication.[106] AirDrop now works with OS X Yosemite. P5 P5C P5S P6 P6P T5 S4 S5 M1 M2 Handoff – start writing an email or surfing a website on one device, then continue on another device, for devices connected to the same iCloud account.P5 P5C P5S P6 P6P T5 S4 S5 M1 M2 Answer a phone call, receive and send SMS/MMS from an iPhone on an iPad or a Mac (all devices must run iOS 8 or OS X Yosemite, and be connected to the same Wi-Fi network or to the device's hotspot). Intelligent hotspot – intelligently discover when an iPhone is nearby and automatically list the device under Wi-Fi networks in Settings. Spotlight Spotlight now also searches Wikipedia, iBooks, iTunes, App Store, nearby places, news, Suggested Websites, and Movie showtimes. Also works within Safari. Spotlight will remember any prior searches. Weather Data is now provided by The Weather Channel instead of Yahoo!. More days are shown. Additional weather information is displayed at the bottom. iTunes Wish List includes new category for songs tagged with Siri. Trending searches. Apple Developers – iOS SDK 8.0 Includes 4000 new APIs. Introduces a new programming language named Swift. Metal API (low level graphics API). Touch ID API – open to third-party apps. Apple Pay API[107] Camera API – third-party camera apps can have precise control over exposure, focus, and white balance. Native apps tap into Safari's AutoFill & Passwords for easy login experience.[108] CloudKit – provides cloud storage and computing power for cloud-based apps. HomeKit – allows standardized control of home automation devices. Discover accessories and add them to a persistent, cross-device, home configuration database. Display, edit, and act upon the data in the home configuration database. Communicate with configured accessories and services to get them to perform actions, such as turning on the lights in the living room. Siri integration. SceneKit – enables easy 2D/3D casual game development. SpriteKit – improved to allow force fields, collision detection, and new lighting effects for games. PhotoKit – developers can enable their photo apps to edit photos directly in the Camera Roll without having to import them first. HealthKit – health and fitness apps can share their data with the new Health app and with each other (when the user approves). Extensions. Today – widgets for the Today view of Notification Center. Share – post content to web services or share content with others. Actions – app extensions to view or manipulate inside another app. Photo Editing – edit a photo or video in Apple's Photos app with extensions from third-party apps. Storage Provider – an interface between files inside an app and other apps on a user's device. Custom Keyboard – system-wide alternative keyboards. Enterprise Improved security – expanded data protection and finer control over mail encryption. IT departments have more ways to manage information securely. Camera Panorama Mode for iPad.S5 M2[109] Time Lapse mode. Separate focus and exposure controls. Shutter Mode (timer can be set to 3 or 10 seconds). Burst photos can now be taken with the FaceTime camera in addition to the iSight camera.P5S P6 P6P[109] Settings Every app installed now has its own settings panel, regardless of whether the app specifies its settings to appear in the Settings app (e.g. Notifications, Privacy, Background App Refresh, and Cellular Data usage). A new "Allow Notifications" setting for each app. "Raise to Listen" setting for Messages. "Display Zoom" added to select iPhones.P6 P6P New Wallpapers. New "Handoff and Suggested Apps" menu under General. Wallpapers and Brightness has been split into two separate menus:[110] "Display and Brightness": Brightness settings were moved here and Text Size and Bold Text from General and Accessibility is now included. "Wallpapers" is now a standalone menu. EU options for roaming. Wi-Fi Wi-Fi network scanning will use random, locally administered MAC addresses, to aid users' security/privacy concerns. Bluetooth Supports MIDI over Bluetooth LE.P4S P5 P5C P5S P6 P6P T5 S3 S4 S5 M1 M2[111] Podcasts Now pre-installed on iOS 8.[112] China features Vector based maps. Turn-by-turn navigation. Lunar calendar support. Improved predictive input. Improved weather data. Other "Send Last Location" option for Find My iPhone.[113] Screen activity recording as a video camera device using OS X Yosemite through Lightning cable. New Tips app gives tips about using certain features of iOS 8. New definition dictionaries for Russian, Brazilian Portuguese, Thai, Turkish and Hindi localization. 24-hour time is now formatted correctly (e.g. "00:10" instead of "0:10"). Home screen landscape view added to iPhone 6 Plus. Patches the ability to access the .app folder within App Store and 3rd-party apps through device file explorer programs on non-jailbroken devices. Security Notes 8.0.1 12A402 September 24, 2014; 6 years ago (2014-09-24) Update withdrawn due to an issue that impacted cellular network connectivity and Touch ID on iPhone 6 and iPhone 6 Plus Fixes a bug so HealthKit apps can now be made available on the App Store. Fixes an issue where 3rd party keyboards could become deselected when a user enters their passcode. Fixes an issue that prevented some apps from accessing photos from the Photo Library. Improves the reliability of the Reachability feature on iPhone 6 and iPhone 6 Plus. Fixes an issue that could cause unexpected cellular data usage when receiving SMS/MMS messages. Better support of Ask To Buy for Family Sharing for In-App Purchases. Fixes an issue where ringtones were sometimes not restored from iCloud backups. Fixes a bug that prevented uploading photos and videos from Safari. 8.0.2 12A405 September 25, 2014; 6 years ago (2014-09-25) Includes all bug fixes and updates originally included in iOS 8.0.1 Fixes an issue in iOS 8.0.1 that impacted cellular network connectivity and Touch ID on iPhone 6 and iPhone 6 Plus.[114] iOS 8.1 iPad: iPad (2, 3rd, 4th) Air (1st, 2) Mini (1st, 2, 3) iPhone: 4S 5 5C 5S 6 6 Plus iPod touch: 5th Limited support on iPad 2, iPad (3rd generation), iPad Mini (1st generation), iPhone 4S, and iPod Touch (5th generation) Version Build Release date Features 8.1 12B410S2 S2C S2D S3 S3L S3D S4 S4L S4D S5 S5L S5D S6 S6L S6D M1 M1C M2 M2C M3 M3C 12B411P4S P5 P5C P5S P6 P6P T5 October 20, 2014; 6 years ago (2014-10-20)[115] Initial release on iPad Air 2 and iPad Mini 3 Option to Enable/Disable dictation in keyboard settings. iBooks icon and Reader view icon in Safari have been redesigned. Settings app for third-party apps has been tweaked. Apple Pay support for iPhone 6 and iPhone 6 Plus (in physical store, online, or in app) P6 P6P, Apple Watch-compatible devices (in physical store) P5 P5C P5S P6 P6P, for Touch ID devices (online or in app). P5S P6 P6P P6P S6 M3 Photos Adds iCloud Photo Library as a beta service. Adds Camera Roll and My Photo Stream albums back to Photos app after disappearing in iOS 8.0.x. Removes Recently Added album. Camera Provides alerts when running low on space before capturing Time Lapse videos. Messages Adds the ability for iPhone users to send and receive SMS and MMS text messages to/from an iPad, iPod Touch and OS X Yosemite.P5 P5C P5S P6 P6P[116] Fixes an issue where searching messages would sometimes not display results. Fixes a bug that caused read messages not to be marked as read. Fixes issues with group messaging. Fixes issues with Wi-Fi performance that could occur when connected to some base stations, like the FIFA 15 Ultimate Team servers. Fixes an issue that could prevent connections to Bluetooth hands-free devices. Fixes bugs that could cause screen rotation to stop working. Fixes an issue in Safari where videos would sometimes not play. Adds an option to select between 2G, 3G, 4G, or LTE networks for cellular data on certain carriers (iPhone and iPad (Wi-Fi + Cellular) only).[117] Adds AirDrop support for Passbook passes. Adds instant tethering for OS X Yosemite. Enables HealthKit apps to access data in the background. Accessibility Fixes an issue that prevented Guided Access from working properly. Fixes a bug where VoiceOver would not work with third-party keyboards. Improves stability and audio quality when using MFi Hearing Aids with iPhone 6 and iPhone 6 Plus. Fixes an issue with VoiceOver where tone dialing would get stuck on tone until dialing another number. Improves reliability when using handwriting, Bluetooth keyboards, and Braille displays with VoiceOver. Fixes an issue that was preventing the use of OS X Caching Server for iOS updates. Fixes an issue that allowed launching applications with expired developer certificates by setting the date and time to prior the certificate's expiration. This firmware can be jailbroken via the Pangu8 jailbreak. Security Notes 8.1.1 12B435P4S P5 P5C P5S T5 S2 S2C S2D S3 S3L S3D S4 S4L S4D S5 S5L S5D M1 M1C M2 M2C 12B436P6 P6P S6 S6L S6D M3 M3C November 17, 2014; 6 years ago (2014-11-17) Stability and Performance Improved performance on iPhone 4S and iPad 2. Bug fixes Other bug fixes. Security updates. Patched Pangu jailbreak for iOS 8.0 – 8.1 Can be jailbroken via the TaiG jailbreak Security Notes 8.1.2 12B440 December 9, 2014; 6 years ago (2014-12-09) Bug fixes Fixes an issue where ringtones purchased through the iTunes store may have been removed from the device. Other Info Can be jailbroken via the TaiG jailbreak Security Notes 8.1.3 12B466 January 27, 2015; 6 years ago (2015-01-27) Stability and performance Includes general performance and stability improvements. Other Info Can be jailbroken via the TaiG 2.0 jailbreak utility. Bug fixes Reduces the amount of storage needed to update software Fixes an issue that prevented some users from entering their Apple ID password for Messages and FaceTime Fixes an issue that caused Spotlight to stop displaying app results Fixes an issue which prevented multitasking gestures from working on iPad Adds new configuration options for education standardized testing Security updates. Patches certain exploits used by the TaiG 1.0 jailbreak. Fixes an issue that allowed installation and usage of applications with expired developer certificates. Security Notes iOS 8.2 iPad: iPad (2, 3rd, 4th) Air (1st, 2) Mini (1st, 2, 3) iPhone: 4S 5 5C 5S 6 6 Plus iPod touch: 5th Limited support on iPad 2, iPad (3rd generation), iPad Mini (1st generation), iPhone 4S, and iPod Touch (5th generation) Version Build Release date Features 8.2 12D508 March 9, 2015; 6 years ago (2015-03-09) Apple Watch Support New Apple Watch app to pair and sync with iPhone, and to customize Watch settings New Activity app for viewing fitness data and achievements from Apple Watch; appears when Apple Watch is paired Available on iPhone 5 and later; iPad and iPod Touch is not supported Health App improvements Adds the ability to select the unit of measurement for body temperature, weight, height, distance, and blood glucose Improves stability when dealing with large amounts of data Includes the ability to add and visualize workout sessions from 3rd-party apps Fixes an issue that may have prevented users from adding a photo in Medical ID Fixes units for vitamins and minerals Fixes an issue where Health data wouldn't refresh after changing data source order Fixes an issue where some graphics showed no data values Adds a privacy setting that enables turning off tracking of steps, distance, and flights climbed Stability Enhancements Increases stability of Mail Improves stability of Flyover in Maps Improves stability of Music Improves VoiceOver reliability Improves connectivity with Made for iPhone Hearing Aids Other Info Can be jailbroken via the TaiG 2.0 jailbreak utility. Bug fixes Fixes an issue in Maps that prevented navigating to some favorite locations Fixes an issue where the last word in a quick reply message wasn't autocorrected Fixes an issue where duplicate iTunes purchased content could prevent iCloud restore from completing Fixes an issue where some music or playlists didn't sync from iTunes to the Music app Fixes an issue where deleted audiobooks sometimes remained on the device Fixes an issue that could prevent call audio from routing to car speakers while using Siri Eyes Free Fixes a Bluetooth calling issue where no audio is heard until the call is answered Fixes a time zone issue where Calendar events appear in GMT Fixes an issue that caused certain events in a custom reoccurring meeting to drop from Exchange calendar Fixes a certificate error that prevented configuring an Exchange account behind a third-party gateway Fixes an issue that could cause an organizer's Exchange meeting notes to be overwritten Fixes an issue that prevented some Calendar events from automatically showing as "busy" after accepting an invite. Security Notes iOS 8.3 iPad: iPad (2, 3rd, 4th) Air (1st, 2) Mini (1st, 2, 3) iPhone: 4S 5 5C 5S 6 6 Plus iPod touch: 5th Limited support on iPad 2, iPad (3rd generation), iPad Mini (1st generation), iPhone 4S, and iPod Touch (5th generation) Version Build Release date Features 8.3 12F69 S2 S2C S2D S3L S3D S4L S4D S5L S5D S6L S6D M1C M2C M3C T5 12F70 P4S P5 P5C P5S P6 P6P April 8, 2015; 5 years ago (2015-04-08) Performance Improvements App launch App responsiveness Messages Wi-Fi Control Center Safari tabs Third-party keyboards Keyboard shortcuts Simplified Chinese keyboard Wi-Fi and Bluetooth fixes Fixes an issue where the user could be continuously prompted for login credentials Fixes an issue where some devices disconnect intermittently from Wi-Fi networks Fixes an issue where hands-free phone calls could become disconnected Fixes an issue where audio playback could stop working with some Bluetooth speakers Orientation and rotation fixes Fixes an issue that sometimes prevented rotating back to portrait after having rotated to landscape Improves performance and stability issues that occurred when rotating the device between portrait and landscape Fixes an issue where device orientation appeared upside down after pulling the iPhone 6 Plus from your pocket Fixes an issue that sometimes prevented apps from rotating to correct orientation after switching apps in multitasking Messages fixes Fixes issues that caused group messages to sometimes split Fixes an issue that sometimes removed the ability to forward or delete individual messages Fixes an issue that sometimes prevented a preview from appearing when taking a photo in Messages Adds the ability to report junk messages directly from the Messages app Adds the ability to filter out iMessages that are not sent by the user's contacts Family Sharing fixes Fixes a bug where certain apps would not launch or update on family members' devices Fixes a bug that prevented family members from downloading certain free apps Increased reliability for 'Ask to Buy' notifications CarPlay fixes Fixes an issue where Maps could come up as a black screen Fixes an issue where the UI could be incorrectly rotated Fixes an issue where the keyboard could appear on the CarPlay screen when it shouldn't Enterprise fixes Improves reliability of installing and updating enterprise apps Corrects the time zone of Calendar events created in IBM Notes Fixes a problem that could cause web clip icons to become generic after restarting Improves reliability of saving the password for a web proxy Exchange out-of-office messages can now be edited separately for external replies Improves recovery of Exchange accounts from temporary connection problems Improves compatibility of VPN and Web proxy solutions Allows use of physical keyboards to log into Safari Web sheets, such as for joining a public Wi-Fi network Fixes an issue that caused Exchange meetings with long notes to be truncated Accessibility fixes Fixes an issue where using the back button in Safari causes VoiceOver gestures to not respond Fixes an issue where VoiceOver focus becomes unreliable in draft Mail messages Fixes an issue where Braille Screen Input cannot be used to type text in forms on webpages Fixes an issue where toggling Quick Nav on a Braille Display announces that Quick Nav is off Fixes an issue keeping app icons from being moveable on home screen when VoiceOver is enabled Fixes an issue in Speak Screen where speech will not start again after pausing Other improvements and bug fixes Introduces a redesigned Emoji keyboard with over 300 new characters iCloud Photo Library has been optimized to work with the new Photos app on OS X 10.10.3 and is now out of beta Improves the pronunciation of street names during turn-by-turn navigation in Maps Includes support for Baum VarioUltra 20 and VarioUltra 40 Braille displays Improves the display of Spotlight results when Reduce Transparency is turned on Adds Italic and Underline format options for iPhone 6 Plus landscape keyboard Adds the ability to remove shipping and billing addresses used with Apple Pay Additional language and country support for Siri: English (India, New Zealand), Danish (Denmark), Dutch (Netherlands), Portuguese (Brazil), Russian (Russia), Swedish (Sweden), Thai (Thailand), Turkish (Turkey) Additional dictation languages: Arabic (Saudi Arabia, United Arab Emirates) and Hebrew (Israel) Improves stability for Phone, Mail, Bluetooth connectivity, Photos, Safari tabs, Settings, Weather, and Genius Playlists in Music Fixes an issue where Slide to Unlock could fail to work on certain devices Fixes an issue that sometimes prevented swiping to answer a phone call on the Lock screen Fixes an issue that prevented opening links in Safari PDFs Fixes an issue where selecting Clear History and Website Data in Safari Settings did not clear all data Fixes an issue that prevented autocorrecting "FYI" Fixes an issue where contextual predictions did not appear in Quick Reply Fixes an issue where Maps did not enter night mode from hybrid mode Fixes an issue that prevented initiating FaceTime calls from a browser or third-party app using FaceTime URLs Fixes an issue that sometimes prevented photos from properly exporting to Digital Camera Image folders on Windows Fixes an issue that sometimes prevented an iPad backup from completing with iTunes Fixes an issue that could cause Podcast downloads to stall when switching from Wi-Fi to cellular networks Fixes an issue where remaining time on timer would sometimes incorrectly display as 00:00 on Lock screen Fixes an issue that sometimes prevented adjusting call volume Fixes an issue that caused the status bar to sometimes appear when it shouldn't Attempt to fix problems with custom keyboards crashing, not appearing, or being replaced with the default keyboard Airplane mode no longer disable the GPS[118] Other info Can be jailbroken via the TaiG 2.0 jailbreak. Latest TaiG version is 2.4.5. Security Notes iOS 8.4 iPad: iPad (2, 3rd, 4th) Air (1st, 2) Mini (1st, 2, 3) iPhone: 4S 5 5C 5S 6 6 Plus iPod touch: 5th 6th Limited support on iPad 2, iPad (3rd generation), iPad Mini (1st generation), iPhone 4S, and iPod Touch (5th generation) Version Build Release date Features 8.4 12H143 June 30, 2015; 5 years ago (2015-06-30) Initial Release on iPod Touch (6th generation) Apple Music Adds support for the new Apple Music streaming service which is available in 100 countries starting on June 30, 2015. New features including personalized music discovery and recommendation based on the user's favorite genres or artists. Adds support for 24/7 online radio service named Beats 1 and new Connect tab in which all artists can communicate with their listeners. Apple Music costs $9.99/month for 1 person and $14.99/mo. for up to 6 people and a free trial will be given to users for 3 months. Apple Radio, Beats One, and Connect feature are still available for users not choosing to subscribe to Apple Music Redesigned Music Application Streamlined design Recently Added tab makes it easier to discover music that was recently added MiniPlayer makes it easier to see what's currently playing and to control music playback Up Next section lets the user see and control what is going to play next Enables search from anywhere in the music application with a new unified magnifying glass icon at the top. Trending Search was added which shows which music within Apple Music is being searched for most by users. Adds support for offline music playback including a toggle and icon to show which songs are available offline. iBooks improvements and fixes Browse, listen, and download audiobooks inside iBooks Enjoy the all-new Now Playing feature, designed specifically for audiobooks Books that are made for iBooks now work on iPhone and iPad Improves accessibility of widgets, glossary, and navigation in books made with iBooks Author New default Chinese font. New setting to turn off Auto-Night theme in the library Fixes an issue that may have prevented Hide Purchases from working Fixes an issue that may have prevented downloading books from iCloud. Bug fixes and stability improvements Fixes an issue where receiving a specific series of Unicode characters causes device to reboot. Fixes an issue that prevented GPS accessories from providing location data Fixes an issue where deleted Apple Watch apps would re-install Fixes the Logjam vulnerability in TLS[119] Other info Can be jailbroken via the TaiG 2 jailbreak. Latest TaiG version is 2.4.5. Security Notes 8.4.1 12H321 August 13, 2015; 5 years ago (2015-08-13) Final version Fixes issues that could prevent turning on iCloud Music Library. Fixes an issue that hides added music because Apple Music was set to show offline music only. Provides a way to add songs to a new playlist if there aren't any playlists to choose from. Fixes an issue that may show different artwork for an album on other devices. Fixes several issues for artists while posting to Connect. Fixes an issue where tapping Love doesn't work as expected while listening to Beats 1. Security updates.[120] Patches TaiG 2 jailbreak for iOS 8.1.3–8.4 (8 exploits). Security Notes iOS 9 Apple announced iOS 9 on June 8, 2015, at its annual Apple Worldwide Developers Conference (WWDC) event, and it was released to the public on September 16, 2015, alongside the iPhone 6S, iPhone 6S Plus and iPad Mini 4. With this release, Apple did not drop support for any iOS devices. Therefore, iOS 9 was supported on the iPhone 4S onwards, iPod Touch (5th generation) onwards, the iPad 2 onwards, and the iPad Mini (1st generation) onwards. However, iOS 9 has limited support on devices with an Apple A5 or A5X processor: the iPhone 4S, iPad 2, iPad (3rd generation), iPad Mini (1st generation), and iPod Touch (5th generation).[citation needed] This release made the iPad 2 the first device to support six major releases of iOS, supporting iOS 4 thru iOS 9. Despite Apple's promise of better performance on these devices, there were still widespread complaints that the issue had not been fixed. iOS 9.3.5 is the final release on the iPod Touch (5th generation), the Wi-Fi-only iPad 2, the Wi-Fi-only iPad (3rd generation), and the Wi-Fi-only iPad Mini (1st generation); iOS 9.3.6 is the final release on the iPhone 4S, the Wi-Fi + cellular iPad 2, the Wi-Fi + cellular iPad (3rd generation), and the Wi-Fi + cellular iPad Mini (1st generation). iOS 9.0 iPad: iPad (2, 3rd, 4th) Air (1st, 2) Mini (1st, 2, 3, 4) iPhone: 4S 5 5C 5S 6 6 Plus 6S 6S Plus iPod touch: 5th 6th Limited support on iPad 2, iPad (3rd generation), iPad Mini (1st generation), iPhone 4S, and iPod Touch (5th generation)[121] Version Build Release date Features 9.0 13A340 M4 M4C 13A342 P6S 13A343 P6SP 13A344P4S P5 P5C P5S P6 P6P T5 T6 S2 S2C S2D S3 S3L S3D S4 S4L S4D S5 S5L S5D S6 S6L S6D M1 M1C M2 M2C M3 M3C September 16, 2015; 5 years ago (2015-09-16) Initial release on iPhone 6S, iPhone 6S Plus, and iPad Mini 4 iPhone 4S and iPad 2 was advertised a speed boost, including other 32-bit devices. App Store App Store reviews no longer allowed when using a beta version of iOS. App Thinning allows the App Store to only download the assets needed for the device being used. On-demand resources allows iConnect to host assets for later download. CarPlay Adds support for wireless CarPlay. Lets users access the car's settings (such as climate control) through the CarPlay interface itself. Battery level indicator added to onscreen display. Plays back audio messages, letting the user hear from people in their own voices. Full support for car knob controls, so the user can tilt and spin to scroll through lists or pan around in Maps. Find My Friends Find My Friends is now pre-installed. Notification Center Widget. Find My iPhone Find My iPhone is now pre-installed. Health Added landscape view. Adds support for reproductive health, UV exposure, water intake and sedentary state data types. iBooks Safari extension to turn a webpage into a PDF and open it in iBooks. Mail Attachments received can now be saved and attachments can be added to messages from iCloud Drive or other document providers while composing a new message. Support for saving attachments to iCloud Drive. Icons added to left and right swipe gestures. Support for Markup allows annotating images or PDF attachments with text, shapes, or signatures. Maps Support for public transit lines, station details with exits and entrances, schedules and directions in select major cities. Also, popular places such as restaurants, stores, and points of interests will be highlighted and presented to the user in a central location. Apple Pay support is indicated on place cards at participating retail locations. Adds support for "Follow up by Email" that allows Apple to email users about issues reported. Browse for places nearby by category, including Food, Drinks, Shopping, Fun and more. Place cards include Wikipedia information for landmarks and cities. Messages Contact Pictures in list view.P6. Redesigned overlay when sending an audio clip. Music Stream High Quality option in Music Settings. Home Sharing returns (removed in iOS 8.4). Updated design of share menus. News Adds a new app named News which provides curated lists of personalized news content for iOS users, offering content from popular websites and newspapers and displaying it in an iOS-friendly layout. This app replaces the Newsstand app.[122] Notes Add photos to notes with the built-in camera or from the Photo Library. Support for hand-drawn sketches, checklists, and inserting photos from the internet or the Camera Roll. Adds different fonts for headings, body, and titles. Recently deleted folder. Share Sheet extension that allows a user to input text, pictures, or other attachments from anywhere in the system via an extension in the share sheet. Notification Center/Notifications Notifications are no longer sorted by application by default, instead being sorted by day starting with recent notifications. Phone Adds WiFi Calling support for iPhone users on AT&T. This feature was formerly limited to T-Mobile and Sprint users.[123][failed verification] Support for Wi-Fi calling on iPad, iPod Touch and Mac, without iPhone in proximity on participating carriers. Photos Added preview scrubber bar to photo viewer. Screenshots and Selfies albums added. Hide photo added to Share Sheet. Ability to hold and select multiple photos. Podcasts The Podcasts app has a new Unplayed tab which will show podcasts which have not yet been played. All-new design to make it easier to find the latest episodes. Notification when new episodes become available. Reminders Share Sheet extension. Shows number of overdue items for each list next to title. Safari "Find on page" and "Request Desktop Version" now accessed from Share Sheet. Support for content blockers.P5S P6 P6P P6S P6SP S5 S6 M2 M3 M4[121] Settings Settings can now be searched. There are now video recording settings to change the quality of recorded videos. There is a new iCloud Drive app which can be enabled in the iCloud Settings. Battery moved to the top level. Updated Notifications icon. Additional options for Auto-Lock. Wallpapers Adds 15 new wallpapers to iOS which replaces most of the wallpaper present in iOS 8. When changing wallpapers, there is a new "Still" option which keeps the wallpaper still. Wallet Replaces the Passbook app with a new app named Wallet and enhances the features of Apple Pay with support for Discover credit/debit card, store loyalty card, and Apple Pay in the UK.[124] To check out even faster, upcoming payments can be prepared by double-clicking the Home button from the Lock Screen and keeping the finger on Touch ID. Watch Renamed from Apple Watch. Updated haptic feedback icons. Battery improvements Up to one hour of additional time before the battery needs to be charged. Facedown detection for turning display off when not in use New Low Power Mode (iPhone only) disables Background App Refresh, Mail Fetch, Motion Effects, and Animated Wallpapers. It also extends device's battery life by up to three hours.P4S P5 P5C P5S P6 P6P P6S P6SP[121] Low Power Mode turns off when device is connected to a power source. Notification Center Widget (when paired with Apple Watch). Intelligence improvements Proactive assistance.P5 P5C P5S P6 P6P T6 S4 S5 S6 M2 M3[125] Presents relevant information even before the user starts typing. Notifies the user when the user needs to leave for appointments using traffic conditions. Learns what the user listens to in a certain location or at a particular time of day and can automatically display playback controls for preferred music and audio apps. Suggested events and contact details are added to apps based on information found in Mail. Siri. Siri has a new colorful interface, similar to that of the Apple Watch. Removed sound from Siri activation. Updated Siri icon in Settings. Search personal photos and videos based on dates, locations and album names. Ask Siri to remind about things being looked at in apps, including Safari, Mail, Notes and Messages. Request directions via public transit. Siri can now use an accent (same language) which differs from the input language. Siri no longer asks for confirmation of reminders that are created. Spotlight Search. A more intelligent Spotlight search provides info such as Weather, News, Stocks, nearby places, and recent/favorite contacts based on the user's preference. Spotlight search can be activated by swiping to the right on the first page of the home screen or swiping down on any page of the home screen.P5 P5C P5S P6 P6P T6 S4 S5 S6 M2 M3 Perform tasks such as currency conversions and calculations. Get sports scores, weather conditions and stock prices. Initiate messages, phone calls and FaceTime calls from contact search results. iPad experience improvements Slide Over.S5 S6 M2 M3 M4 Quickly use a second app without leaving the current one. Easily switch between Slide Over apps. Support for Apple apps and enabled third party apps. Split View.S6 M4 View and interact with two apps at once. Ability to resize view to give equal attention to both apps or prioritize one app over another. Support for Apple apps and enabled third party apps. Picture in picture.S5 S6 M2 M3 M4 Continue watching a video while using favorite apps. Support for Safari video, FaceTime, Videos and Podcasts and enabled third party apps. QuickType improvements. Multi-Touch gestures for easier text selection on iPad. Quick access to text editing tools with Shortcut Bar on iPad. Support for hardware keyboard shortcuts. Support for all Unicode emoji flags. Support for Alt Tab / Cmd Tab. Folders on iPad use a 4x4 layout rather than 3x3. Redesigned notification center view when in landscape. Keyboard improvements New keyboard now displays whether the letters are upper-case or lower-case depending on whether the Shift key has been toggled or not. Cut/Copy functions on the keyboard have been replaced with an Undo/Redo button. The Cut/Copy buttons still appear when text is selected. Over 50 new flag emojis. A "deep press" (3D touch) on the keyboard will convert the keyboard to a track pad to move the cursor and make it easier to manipulate text. (6S and 6S Plus only) Ability to disable character preview. Performance and stability improvements. Extends the battery life of iOS devices by an extra hour. Minimizes iOS update file size to 1.3 GB. Improves performance on iOS devices by utilising Metal API throughout iOS to deliver faster scrolling, smoother animation, and better overall performance. Reduced touch latency from sixty milliseconds to less than thirty milliseconds.[126] Security improvements Touch ID devices now use a 6-digit passcode by default, though a 4-digit option is still available alongside options for a passcode with a custom number of digits and an alphanumeric passcode.P5S P6 P6P S6 M3[127] Adds 2-factor authentication for iCloud on iOS. Adds support for add an IKEv2 VPN directly in Settings without need for third-party app.[128][129] Other improvements Print preview screen. Allows the user to view all pages, select which pages to print, and print in black and white. Leave a message option if recipient isn't available for a F

privileges, allowing the attacker to steal all data on the phone and spy on the victim's conversations live.[139] EOL updates 9.3.6 13G37 July 22, 2019; 20 months ago (2019-07-22) iPhone 4s, iPad mini (1st generation) Wi-Fi + Cellular, iPad 2 Wi-Fi + Cellular and iPad (3rd generation) Wi-Fi + Cellular only Final release supported on iPhone 4S, iPad 2 Wi-Fi + Cellular, iPad (3rd generation) Wi-Fi + Cellular, and iPad Mini (1st generation) Wi-Fi + Cellular Fixes an issue that would prevent cellular devices from maintaining an accurate GPS position after November 3, 2019.[140] iOS 10 Apple announced iOS 10 on June 13, 2016, at its annual Apple Worldwide Developers Conference (WWDC) event, and it was released to the public on September 13, 2016, alongside the iPhone 7 and iPhone 7 Plus. With this release, Apple dropped support for devices using an A5 or A5X processor: the iPhone 4S, the iPad 2, iPad (3rd generation), iPad Mini (1st generation), and iPod Touch (5th generation). iOS 10 has limited support on devices with 32-bit processors: the iPhone 5, iPhone 5C, and iPad (4th generation).[citation needed] However, the iPhone 5S onwards, iPod Touch (6th generation), iPad Air onwards, and the iPad Mini 2 onwards are fully supported. The release of iOS 10.2.1 brought support for the iPad (5th generation), and iOS 10.3.2 brought support for the iPad Pro (10.5-inch) and the iPad Pro (12.9-inch, 2nd generation). iOS 10.3.3 is the final supported release for the iPhone 5C and the Wi-Fi-only iPad (4th generation). iOS 10.3.4 is the final supported release for the iPhone 5 and the Wi-Fi + cellular iPad (4th generation). iOS 10 is the last iOS version to run on 32-bit processors and also the last to run 32-bit apps. iOS 10.0 iPad: iPad (4th) Air (1st, 2) Mini (2, 3, 4) Pro (1st, 12.9 & 9.7) iPhone: 5 5C 5S SE (1st) 6 6 Plus 6S 6S Plus 7 7 Plus iPod touch: 6th Limited support on iPad (4th generation), iPhone 5, and iPhone 5C Version Build Release date Features 10.0 14A403 14A346 P7I P7Q P7PI P7PQ September 13, 2016; 4 years ago (2016-09-13) Initial release on iPhone 7 and iPhone 7 Plus Allow hiding home screen icons of most built-in apps: Calculator, Calendar, Compass, Contacts, FaceTime, Find My Friends, Home, iBooks, iCloud Drive, iTunes Store, Mail, Maps, Music, News, Notes, Podcasts, Reminders, Stocks, Tips, Videos, Voice Memos, Watch app, Weather. New Sounds Locking device. Keyboard Clicks. 2 new voices added to Arabic voiceover. Lock Screen Swipe left to open Camera. Swipe right for Today view. Press home button to unlock device. Messages Expressive Messaging. Bubble effects allows sending messages loudly, gently, with a slam or with invisible ink. Full-screen effects. Tapback for quick replies to messages, links and photos. Handwritten messages animate like ink on paper. Digital Touch allows sending of sketches, taps and heartbeats. Tap to replace can emojify text with just a tap. Rich links show a preview of shared web pages. iMessage apps New App Store for iMessage. Use the power of apps in Messages to share and collaborate with friends. Download stickers to send and place on text bubbles and photos. Siri Siri now works with the following types of apps. Messaging apps to send, search and read back text messages. VoIP apps to make phone calls. Photos apps to search for images and photos. Ride service apps to book rides. Payment apps to make personal payments. Fitness apps to start, stop and pause workouts. CarPlay carmaker apps to adjust climate, radio, seat and personal settings. Maps All-new look. Proactive suggestions for places user is likely to go next, based on routine or appointments in Calendar. Improved search with new callout design, clustered results and category filters. Home, work, favourite locations and locations from upcoming Calendar events are displayed on the map. Displays where the users car is parked via CarPlay or Bluetooth. Weather for the currently viewed area. Extensions Make a reservation within Maps using extensions from participating reservations apps. Book a ride to a destination within Maps using extensions from participating ride service apps. Turn-by-turn navigation improvements. Search along route for petrol stations, food and coffee shops. Automatic view adjustment of the road ahead. Use pan and zoom during navigation. Option to avoid tolls and motorways. Photos Advanced face recognition designed with deep learning to automatically group similar faces together. Object and scene recognition to intelligently search for photos by what's in them using computer vision that scans the photo library locally on the device. Places album to see all photos, videos and Live Photos on a map. Memories Intelligently highlights forgotten events, trips and people, and presents them in a collection. Memory movies automatically edited with theme music, titles and cinematic transitions. Related memories to rediscover photos, based on location, time, people, scenes and objects. Easily share with family and friends. Brilliance control applies region-specific adjustments to brightness, highlights and contrast. Home New Home app to securely manage and control HomeKit-enabled accessories. Scenes to control groups of accessories with just a tap. Rich notifications with quick actions to control accessories. Optionally share home access with family and friends. Remote access and automation of accessories with Apple TV or iPad. Apple Music An all-new design. Navigate Library with modified menu and see all the Downloaded Music that can play on device while offline. See recommendations in For You that highlight mixes, playlists, albums and Connect posts – selected based on their music and artist preferences. Browse to see exclusive releases, find curated playlists and discover the most important new releases – picked by editors. Modified Radio interface – clearly see what's live on Beats 1, hear favourite shows on demand or choose a curated station for any genre of music. Modified Now Playing interface – swipe up to view available lyrics and quickly see or edit songs that are coming up next. Apple News All-new design in For You adds bold typography, vibrant colour and distinct sections to find stories on specific topics. Important stories of the day within Top Stories – updated by editors throughout the day. Find most popular stories right now within Trending Stories – selected based on what others are reading. User can see all stories grouped into sections based on the topics they follow or read. Featured Stories – selected by editors. Share stories – tap the icon on any story to send it to a friend from For You. Receive breaking news notifications from users trusted sources. Subscribe to favourite magazines and newspapers directly in News. New personalised Today View widget lets user keep up with the latest stories throughout the day. Experience Raise to Wake automatically wakes the screen as iPhone is raised.P6S P6SP PSE P7 P7P Rich notifications that support real-time information, audio, photos and videos. Today view is redesigned and supports all-new widgets for apps like Weather, Up Next, Maps, Stocks and more. Control Center is redesigned including dedicated cards for music playback and Home. Expanded use of 3D Touch. Lock screen notifications to support an expanded view and access to quick actions. New quick actions for built-in apps like Weather, Stocks, Reminders, Health, Home, FaceTime, iCloud Drive and Settings. Home screen widgets. Control Center for access to quick actions for Torch, Timer, Calculator and Camera. Clear all in Notification Center. QuickType New emoji, including gender-diverse options to existing characters, single-parent family variations, rainbow flag and redesigns of popular emoji. Contextual predictions for current location, recent addresses, contact information and calendar availability using deep neural network technology. Emoji predictions. Calendar events are intelligently populated using deep learning technology with information from conversations in Mail and Messages. Multilingual typing now lets user type in two languages at once without having to switch keyboards. Rest & Type on iPad intelligently adapts to users unique typing patterns. Predictive typing now uses deep neural network technology for greater prediction accuracy. Phone Voicemail transcription (beta). Spam call alerts with spam call identification apps. Support for third-party VoIP apps receiving calls on the Lock screen, including support for Call Waiting, Mute and Do Not Disturb. Contacts Emergency bypass allows call and text notifications to sound aloud regardless of silent or Do Not Disturb mode. Other improvements Apple Pay in Safari P6 P6P P6S P6SP PSE P7 P7P. View two pages at once using Split View in Safari on iPad. Notes collaboration lets user invite people to work on notes together. Markup support in Messages, Photos and PDFs stored in Notes. Bedtime Alarm in the Clock app lets user set a regular sleep schedule and receive bedtime reminders. Health adds support for health records and organ donation (US only). Stabilisation support for Live Photos for improved camera capture. Live Filters support when capturing Live Photos. iCloud Drive now supports Desktop and Documents folders from macOS. Live search results in Spotlight for Chinese and Japanese. Siri support for Spanish (Chile), Chinese (Cantonese – China), English (Ireland), English (South Africa). Ling Wai and Kaiti Black document fonts for Chinese. Yu Kyokasho and Toppan Bunkyu fonts for Japanese. New definition dictionaries in Traditional Chinese and Danish and bilingual dictionaries in Dutch and Italian. New keyboard for Spanish (Latin America). New display languages and locales for English (Ireland), English (New Zealand), English (Singapore), English (South Africa), Spanish (Argentina), Spanish (Chile), Spanish (Colombia), Spanish (Costa Rica), Spanish (Ecuador), Spanish (United States), Spanish (El Salvador), Spanish (Guatemala), Spanish (Honduras), Spanish (Nicaragua), Spanish (Panama), Spanish (Paraguay), Spanish (Peru), Spanish (Puerto Rico), Spanish (Dominican Republic), Spanish (Uruguay), Spanish (Venezuela), French (Belgium), Dutch (Belgium), Dutch (Netherlands), and Traditional Chinese (Macau). Accessibility Magnifier now uses the camera on iPhone or iPad like a digital magnifying glass for real-life objects. New range of display colour filters to support different forms of colour blindness or other vision challenges. VoiceOver adds a Pronunciation Editor to customise the way words are pronounced, additional voices and support for multiple audio sources. Additional text highlighting options in Speak Screen and Speak Selection, as well as the ability to speak keyboard letters and predictive typing suggestions to support multi-modal learning. Switch control now lets user control iOS, macOS and tvOS all from the same iPhone or iPad, so user doesn't need to configure switches for the secondary device. Software textphone allows user to make and receive textphone calls without the need for traditional hardware teleprinter accessories. Bug Fixes from 10.0 (iPhone 7/Plus changelog) Fixes an issue that could prevent recognizing "Hey Siri" requests. Fixes issues that could affect audio quality for calls made over VoLTE. Fixes issues that could impact Bluetooth connectivity and pairing with Apple Watch. Improves stability of the Camera and Contacts apps. 10.0.2 14A456 September 23, 2016; 4 years ago (2016-09-23) Fixes an issue that could temporarily prevent headphone audio controls from working. Fixes an issue that caused Photos to quit for some users when turning on iCloud Photo Library. Fixes an issue that prevented enabling some app extensions. 10.0.3 14A551 P7I P7Q P7PI P7PQ October 17, 2016; 4 years ago (2016-10-17) iPhone 7 and iPhone 7 Plus only Fixes an issue where cellular connectivity could drop on iPhone 7 and iPhone 7 Plus. iOS 10.1 iPad: iPad (4th) Air (1st, 2) Mini (2, 3, 4) Pro (1st, 12.9 & 9.7) iPhone: 5 5C 5S SE (1st) 6 6 Plus 6S 6S Plus 7 7 Plus iPod touch: 6th Limited support on iPad (4th generation), iPhone 5, and iPhone 5C Version Build Release date Features 10.1 14B72 14B72c P7I P7Q P7PI P7PQ October 24, 2016; 4 years ago (2016-10-24) Camera and Photos Introduces Portrait Camera for iPhone 7 Plus that creates a depth effect that keeps your subject sharp while creating a beautifully blurred background (beta). People names in the Photos app are saved in iCloud backups. Improved the display of wide color gamut photos in the grid views of the Photos app. Fixes an issue where opening the Camera app would show a blurred or flashing screen for some users. Fixes an issue that caused Photos to quit for some users when turning on iCloud Photo Library. Maps Transit support for every major train, subway, ferry, and national bus line, as well as local bus systems for Tokyo, Osaka, and Nagoya. Sign-based transit navigation including layouts of all underground structures and walkways that connect large transit stations. Transit fare comparison when viewing alternative transit routes. Messages New option to replay bubble and full screen effects. Messages effects can play with Reduce Motion enabled. Fixes an issue that could lead to contact names appearing incorrectly in Messages. Fixes an issue where Messages could open to a white screen. Fixes an issue that could prevent the report junk option from displaying with unknown senders. Fixes an issue where videos captured and sent in the Messages app could be missing audio. Apple Watch Adds distance and average pace to workout summaries in the Activity app for outdoor wheelchair run pace and outdoor wheelchair walk pace. Fixes issues that may have prevented Music playlists from syncing to Apple Watch. Fixes an issue that was preventing invitations and data from appearing in Activity Sharing. Fixes an issue that was allowing Activity Sharing to update over cellular when manually disabled. Fixes an issue that was causing some third-party apps to crash when inputting text. Other improvements and fixes Improves Bluetooth connectivity with third party accessories. Improves AirPlay Mirroring performance when waking a device from sleep. Fixes an issue where playback would not work for iTunes purchased content when the "Show iTunes Purchases" setting is turned off. Fixes an issue where certain selfie apps and face filters used with the FaceTime HD camera on iPhone 7 and iPhone 7 Plus did not display a live preview. Fixes an issue in Health where individual strokes are converted to separate characters when using the Chinese handwriting keyboard. Improves performance of sharing websites from Safari to Messages. Fixes an issue in Safari that caused web previews in tab view to not display correctly. Fixes an issue that caused certain Mail messages to be reformatted with very small text. Fixes an issue that caused some HTML email to be formatted incorrectly. Fixes an issue that in some cases caused the search field to disappear in Mail. Fixes an issue that could prevent Today View Widgets from updating when launched. Fixes an issue where Weather widget sometimes failed to load data. Fixes an issue on iPhone 7 where Home Button click settings would not appear in search results. Fixes an issue that prevented spam alert extensions from blocking calls. Fixes an issue that could prevent alarm sounds from going off. Fixes an issue where audio playback via Bluetooth would cause the Taptic engine to stop providing feedback for some users. Fixes an issue preventing some users from restoring from iCloud Backup. Security updates List of patches.[141] 10.1.1 14B100 14B150 October 31, 2016; 4 years ago (2016-10-31) November 9, 2016; 4 years ago (2016-11-09) (14B150) Fixes an issue where Health data could not be viewed for some users. New security entries added since iOS 10.1.[141] iOS 10.2 iPad: iPad (4th) Air (1st, 2) Mini (2, 3, 4) Pro (1st, 12.9 & 9.7) iPhone: 5 5C 5S SE (1st) 6 6 Plus 6S 6S Plus 7 7 Plus iPod touch: 6th Limited support on iPad (4th generation), iPhone 5, and iPhone 5C Version Build Release date Features 10.2 14C92 December 12, 2016; 4 years ago (2016-12-12) TV Use Up Next to see the movies and shows you're currently watching and pick up where you left off. Get recommendations for new movies and TV shows in Watch Now. Discover new apps and the latest iTunes releases in the Store. Access the Library for your iTunes purchases and rentals. New Widget for TV and Videos app. Videos Removed from iOS completely, as the TV app replaces it (US only, as of this update). Emoji Redesigned emoji that reveal even more detail. Over 100 new emoji including new faces, food, animals, sports, and professions. Unicode 9.0 support. Photos Improves stabilization and delivers faster frame rate for Live Photos. Improves accuracy of groupings of similar photos of the same person in the People album. Fixes an issue where Memories might generate a memory from photos of screenshots, whiteboards or receipts. Fixes an issue where the camera would stay zoomed in after switching back from the Camera Roll on iPhone 7 Plus. Additional support for RAW digital cameras. Messages Adds new love and celebration full screen effects in Messages. Fixes an issue that sometimes prevented the keyboard from displaying in Messages. Music Swipe up the Now Playing screen to more easily access Shuffle, Repeat and Up Next. Choose how to sort Playlists, Albums, and Songs in Library. 'Show Star Ratings' option under Music Settings. News Stories you've saved for later now appear the new Saved section. The best paid stories from channels you subscribe to will now appear in a dedicated section in For You. It's now easier than ever to get to the next story, just swipe left or tap Next Story while reading. Mail Fixes an issue that caused the Move sheet to persist after filing a Mail message. Fixes an issue with long press activating copy and paste in Mail. Fixes an issue in which the wrong message would be selected after deleting a Mail conversation. Settings New wallpapers for iPhone 7 and 7 Plus – These include the ones Apple showed off at their iPhone 7 press event. New 'Preserve Settings' menu under Camera Settings. New 'Press and Hold to Speak' menu under Home Button Accessibility settings. New TV app section New TV Provider section for Single-Sign-On. SOS iPhone calls emergency services if power button is pressed five times (India only). Siri New introduction screen for Siri. Accessibility Adds BraillePen14 support to VoiceOver. Fixes an issue where the braille table could switch unexpectedly with VoiceOver. Fixes an issue where sometimes Siri enhanced voices were unavailable to VoiceOver. Fixes an issue where VoiceOver users could not re-order items in lists. Fixes an issue where Switch Control was sometimes unable to delete Voicemails. Other improvements and fixes Adds notification support for HomeKit accessories including window coverings, occupancy, motion, door/window, smoke, carbon monoxide, and water leak sensors. Adds notification support for HomeKit accessories when software updates are available to HomeKit accessories. Improves Bluetooth performance and connectivity with third party accessories. Fixes an issue that could cause FaceTime participants to appear out of focus. Fixes an issue that could cause FaceTime calls to appear with incorrect aspect ratio and orientation. Fixes an issue that prevented some Visual Voicemail from completing playback. Fixes a Safari Reader issue that could cause articles to open as empty pages. Fixes an issue that could cause Safari to quit unexpectedly after marking an item as read in Reading List. Security updates: 10.2.1 14D27 January 23, 2017; 4 years ago (2017-01-23) Initial release on iPad (5th generation) General bug fixes and performance improvements. Improves power management during peak workloads to avoid unexpected shutdowns. Security updates: iOS 10.3 iPad: iPad (4th, 5th) Air (1st, 2) Mini (2, 3, 4) Pro (1st, 12.9 & 9.7; 2nd, 12.9 & 10.5) iPhone: 5 5C 5S SE (1st) 6 6 Plus 6S 6S Plus 7 7 Plus iPod touch: 6th Limited support on iPad (4th generation), iPhone 5, and iPhone 5C Version Build Release date Features 10.3 14E277[142] March 27, 2017; 3 years ago (2017-03-27) Find My iPhone There's a new "Find My AirPods" tool in Find My iPhone to help users locate lost AirPods. The Location and Play Sound is now supported for AirPods. This sound emits a noise from the AirPods that reaches a high volume after a few seconds. Users should remove their AirPods from their ears before playing the sound. HomeKit Expanded HomeKit Programmable Light Switch accessory support. Siri Siri can now display cricket scores from the Indian Premier League and the International Cricket Council. Siri updated to be able to pay bills, check on the status of payments, and schedule future rides via Uber and Lyft and other apps that support the function. Siri now has breadcrumb support. For example, users can say "Hey Siri, open the App Store" and a back arrow (or left arrow) will appear in the left of the iOS status bar to jump back to the Siri interface. Safari Safari now supports the Reduced Motion accessibility preference for web apps. Maps The weather icon in the Maps app includes 3D Touch to show hourly forecasts. Removed 3D globe, replaces it with a flat 2D look. Calendar Shows an alert below the "Event Details" page, for event invitations sent from an unknown senders, and allows users to report event invites sent from unknown senders as junk. CarPlay CarPlay includes new shortcuts for launching recently used apps. EV charging station locations show up in CarPlay. New "Up next" option and quick access to albums. News The navigation bar icons are now visibly bolder. There is now an option to 'show disliked' channels on the bottom of the "Favorites" page. An option has been introduced to where users can now quickly favorite or dislike news channels from the "Explore" section or the news channel that is currently open. Home There is now support in Home which allows users to trigger scenes which use accessories that contain switches and buttons. There is now support in Home which allows users to see the remaining charge of the batteries in their HomeKit accessories. Mail Conversation View in the Mail app features navigation improvements. When an email is open in Mail app, the "back" button in the left corner of the screen shows the number of unread emails in the mailbox you opened the email in (Similar to the Messages app). Animations Slightly refined opening animation for apps to where rounded edges are now visible when opening applications (more noticeable on applications that load slowly). Field Test Now updated for iPhone 7 and 7 Plus devices which contain modems from Intel. Podcasts Support for 3D Touch and a Today widget has been added which allows users to access recently updated podcasts. Podcast shows or episodes can now be shared in the Messages app and they feature full playback support. Settings Notifications Users can now get notifications for settings other than software updates such as for two-factor authentication. Restrictions Users can now restrict certain TV providers. iTunes and App Store New system level way for developers to request app ratings, opt out option in Settings. iCloud The iCloud tab has moved to the top of Settings instead of being at the bottom, and also now displays the user's name and picture along with the email address(es) associated with their Apple ID(s). Underneath this new tab is where settings notifications appear. The amount of storage users have and how much storage users have used is now shown. iCloud Drive cellular data usage settings have been moved to the cellular tab. "Backup" has been renamed to 'iCloud Backup". General "Diagnostics and Usage" is now labeled "Analytics", corresponding changes included in menu. There is a new button to toggle iCloud data over cellular networks. Touch ID and Passcode When choosing an alphanumeric code with numbers only, passcodes can no longer be shorter than 4 characters in length. An error displays saying that "this passcode must be longer". Calling Calls on Other Devices even when not nearby is now enabled for Verizon's Integrated Calling feature. News An option was added where users can disable the Next Up button from appearing while in a news article. "Show Disliked" section under Favourites, this shows the channels that you have disliked. Keyboards and IME Facemarks have been shuffled around in the Chinese and Japanese keyboard layouts. The icon of the emoji button on the keyboard is now filled in and no longer outlined like it was in previous versions of iOS. Music It is now possible to rearrange songs while repeat mode is turned on. App Store Developers can now respond to reviews on the App Store. Developers will now be able to update the icons for their apps at any time, with an app update no longer required to push out new icon artwork for their apps. App Store reviews now include the publish date of when the review was published. When a user uses 3D Touch on an app review, they can rate the review as Helpful, Not Helpful, or Report a Concern with the review. Users no longer have to enter their Apple ID password when writing a review. Spotlight Spotlight Search Suggestions now have a border, floating text no longer appears. Other improvements, bug fixes, and enhancements Users can now rent a movie once and they can watch their iTunes movies across their various devices. Fixes the 30% battery bug that was present in previous versions of iOS 10 for IPhone 6 and iPhone 6S devices. An alert is now displayed to indicate that 32-bit apps on 10.3 need to be updated and will no longer work in future versions of iOS. An "App Compatibility" list of 32-bit apps can be accessed by going to General > About > tapping on "Applications". Improves performance across the system and the responsiveness of the operating system has been improved. The file system has been updated to the Apple File System (APFS), which replaces HFS Plus, and is designed for Flash/SSD storage. APFS also features improved security and encryption, and improves system performance. Fixes an issue related to the Messages app where the app would freeze and crash upon receiving a long text message. Fixes an issue on the iPad Pro where the Apple Pencil's battery wouldn't charge above 5%. Fixes an issue where the Telephoto lens on the iPhone 7 Plus would not activate while in the 2x zoom mode. Fixes an issue in Notification Center where tapping the search bar in between the Today view and Notification Center would cause the Springboard to crash and reload. The passcode menu UIs have been updated to show dots instead of dashes. VoiceOver stability improvements for the Phone, Safari, and Mail apps Fixes an issue that could prevent Maps from displaying a user's current location after resetting Location & Privacy settings. Security Fixes over 100 security vulnerabilities in various aspects of iOS such as Audio, the Core libraries, and WebKit. More at . 10.3.1[143] 14E304 April 3, 2017; 3 years ago (2017-04-03) Fixed in this release: Security Fixes a Wi-Fi-related vulnerability through improved input validation where an attacker within range may be able to execute arbitrary code on the Wi-Fi chipsets of iPhone 5 and later. Visit for more information. 10.3.2[144] 14F89 14F8089R3C R4C 14F90S7 S7L 14F91M4C May 15, 2017; 3 years ago (2017-05-15) Initial release on iPad Pro 10.5" and 12.9" (2nd generation) Security and Bug Fixes; see 10.3.3 14G60 July 19, 2017; 3 years ago (2017-07-19) Final release supported on iPhone 5C and iPad (4th generation) Wi-Fi Includes bug fixes and improves the security of your iPhone or iPad. One of the bugs that is fixed is in the Broadcom Wi-Fi chipset formally known as CVE-2017–9417 and is nicknamed "Broadpwn".[145] Broadpwn allows a worm to propagate among affected Broadcom Wi-Fi chipsets just by having the Wi-Fi chipset turned on even if it is not connected to any networks, and can be used to force a remote code execution on the main CPU of an affected smartphone.[146] Information on security updates in iOS 10.3.3 can be found at . 3 new wallpapers on 12.9" iPad Pro EOL updates 10.3.4 14G61 July 22, 2019; 20 months ago (2019-07-22) iPhone 5 and iPad (4th Generation) WiFi + Cellular only Final release supported on iPhone 5 and iPad (4th generation) Wi-Fi + Cellular Fixes an issue that would prevent cellular devices from maintaining an accurate GPS position after November 3, 2019.[140] For iPhone 5, fixes issue that would prevent device from using functions relying on correct date, including App Store, iCloud, email, web browsing, OTA update and iCloud backup. iOS 11 Apple announced iOS 11 on June 5, 2017, at its annual Apple Worldwide Developers Conference (WWDC) event, and it was released to the public on September 19, 2017, alongside the iPhone 8 and iPhone 8 Plus. With this release, Apple dropped support for the 32-bit iPhone 5, iPhone 5C, and iPad (4th generation), and also dropped support for 32-bit applications, making iOS a 64-bit-only OS that only runs 64-bit apps. iOS 11 has limited support on devices with the Apple A7 or A8 processors: the iPhone 5S, iPhone 6/6 Plus, iPod Touch (6th generation), iPad Air, iPad Air 2, iPad Mini 2, 3, and 4.[citation needed] However, all other devices from the iPhone 6S/6S Plus onwards, the iPad Air (2019), the iPad (5th generation) onwards, and all iPad Pro models are fully supported. iOS 11.0.1 brought support for the iPad Pro (12.9-inch, 3rd generation) and iPad Pro (11-inch, 1st generation) and iOS 11.2 brought support for the iPad Mini (5th generation) and iPad Air (3rd generation). iOS 11.0 iPad: iPad (5th) Air (1st, 2) Mini (2, 3, 4) Pro (1st, 12.9 & 9.7; 2nd, 12.9 & 10.5) iPhone: 5S SE (1st) 6 6 Plus 6S 6S Plus 7 7 Plus 8 8 Plus X iPod touch: 6th Version Build Release date Features 11.0 15A372 September 19, 2017; 3 years ago (2017-09-19) Initial release on iPhone 8 and iPhone 8 Plus. New Features App Store Redesigns the App Store to make the discovery of new apps and games easier. Introduces the Today tab, a curated portal with stories, how-to guides, and more to help users discover new apps and games. Dedicated Games and Apps tabs, allowing easier access and better curation of both app categories. Redesigned app pages putting more of a focus on video previews, nicer display of Editors' Choice badges, easier access of user ratings and reviews, and more information about the In-App Purchases for an app. Apple Music Support for user profiles, allowing users to follow other users and see what they are listening to as well as see their playlists (if they have been made public). Camera Adds HDR, Optical Image Stabilization, and True Tone Flash to Portrait Mode. Photos and Videos now use the HEIF / HEVC image and video formats by default, with the ability to use the JPEG / H.264 formats instead via an option in Camera Settings. HEVC supports 8-bit and 10-bit with hardware decoding supported on devices containing an Apple A9 chip or newer while software-level decoding is supported on devices that have an Apple A8 chip and older. Introduces a redesigned set of filters, optimized for natural skin tones. There are 9 filters in total. Adds a QR code scanner allowing users to scan QR codes. Photos Several new Live Photo effects have been added: Loop, Bounce, and Long Exposure. The ability to mute, trim, or choose a new Key Photo for a Live Photo has been added. Memory Movies now automatically adapt the given content for Landscape and Portrait orientations. More than a dozen new types of memories have been added including the following: Pets, Babies, Weddings, Sporting Events, and more. The "People" album has been made more accurate and now stays synchronized across devices with iCloud Photo Library. Support for animated GIFs has been added. Maps Indoor maps for places such as Airports and Shopping Centers has been introduced. Lane guidance and speed limit information is now available for Turn-by-turn directions / navigation. Support for one-handed zoom by double tapping and swiping has been added. Flyover: View renderings of places and cities in 3D. Do Not Disturb while Driving Notifications are automatically silenced while driving and puts the iPhone in silent mode while keeping the display turned off to avoid distractions. Users can turn on iMessage auto-reply to alert any chosen contacts when they send a message and the user is driving. Control Center Redesigns the Control Center to be a customizable one page layout, replacing the previous 3 page system previously in place. Introduces several new Control Center widgets: Accessibility, Guided Access, Screen Recording, and Wallet. iPad-specific Features Dock The Dock has been redesigned, allowing access to apps that have been pinned to the dock as well as access to Recently Used / Continuity apps via the right portion of the Dock. The Dock can automatically resize itself, allowing the user to pin more than 4 apps. The Dock can now be accessed when a user is in an app by swiping up from the bottom of the display. Slide Over and Split View Apps can now be placed into Slide Over / Split View by touching and holding an app from the Dock and then dragging. Apps in Split View and apps running in the background can now run simultaneously. Apps in Slide Over / Split View now have the ability to be placed on the left side of the display. Drag and Drop Users can now move text, images, and files between apps. Users can take advantage of Multi-Touch capabilities to move multiple items at the same time. Markup Markup allows users to markup webpages, documents, PDFs, screenshots, photos, and more. Users can optionally use an Apple-Pencil Notes Notes can now be created even with the screen off by tapping the Lock Screen with an Apple Pencil. Drawing in a note can be instantly activated by placing an Apple Pencil in the note's body. Users now have the ability to search for handwritten text within notes. The document scanner has been enhanced with the ability to autocorrect for skewing and now removes shadows with the use of image filters. Notes can now contain tables to organize information into rows and columns. Notes can now be pinned to the top of a folder for easy access. Files (also available on iPhone and iPod Touch) Allows users to search, browse, and organize files. Supports iCloud Drive as well as third-party file storage providers. Includes a Recents view allowing users to see and access recently accessed files across apps and cloud services. Supports the ability to create folders as well as sort files by various parameters such as name, date, size, and tags. QuickType The ability to flick down on letter keys to easily enter symbols, numbers, and punctuation marks without having to hold down on a letter key has been added. A keyboard layout designed for one-handed use is now supported on iPhone. Several new keyboard types have been added: Armenian, Azerbaijani, Belarusian, Georgian, Irish, Kannada, Malayalam, Maori, Odia, Swahili, and Welsh. Support for English input is now available on the 10-key Pinyin and Japanese Romaji keyboard layouts. HomeKit Support for various new accessory types have been added including AirPlay 2 speakers, sprinklers, and faucets. Occupancy, Time, and accessory-based triggers have been expanded. The ability to pair an accessory by scanning a QR code has been added. Accessibility Support for image descriptions in VoiceOver. Support for tables and lists in PDF files in VoiceOver. Support for Type to Siri, allowing users to manually type Siri queries. Spoken and braille captions are now supported for videos. Dynamic Type has been enhanced, adding support for more text styles and reworked to work better across the iOS system. Invert Colors has been redesigned, making media such as photos and videos easier to see. Improvements have been made to Highlight Colors in Speak Selection and Speak Screen. Typing in Switch Control can now scan and type whole words at a time. Features and APIs targeted at Developers ARKit — Allows app developers to create augmented reality experiences. Core ML — Allows app developers to implement machine learning in their apps using the same APIs that power technologies and apps like Siri, the QuickType keyboard, and the Camera app. Core NFC — Allows app developers to tap into the NFC chips of iPhones and scan nearby environments and possibly provide users with more information. MusicKit — Allows app developers to implement support for various Apple Music features into their apps such as playback, search, playback queues, recommendations and more. Architectural Changes Support for 32-bit ARM architectures has been removed. Apps designed for 32-bit architectures will no longer work until updated by the respective app developer to support 64-bit architectures. Other Changes and Features Redesigns the Apple Podcasts app and introduces several new capabilities, such as the ability to display seasons, trailers and bonus episodes of a podcast. Also introduces a Listen Now tab granting easy access to new Podcast episodes and episodes currently in the playback queue. Support for annotating PDF files in iBooks. Support for several new features in the Apple News app including Top Stories For You, Siri recommendations, Videos of the Day, and editor curated stories via a new tab called Spotlight. Automatic Setup Automatically signs a user into essential Apple services, including iCloud, Keychain, iTunes, the App Store, iMessage, and FaceTime with the given Apple ID. Restores device settings including Language, Region, Network Settings, Keyboard Preferences, Frequently Visited Places, Siri preferences, as well as Home and Health data. Introduces the ability for a user to easily share access to a given Wi-Fi network. A new section in Settings dedicated to storage management. Storage optimization notifications are also now available. Introduces Emergency SOS, allowing users to quickly call emergency services based on their current location while automatically notifying emergency contacts, sharing the user's location, and displaying the Medical ID profile of the user. Users can check flight status via Spotlight Search and Safari. Definitions, conversions, and math calculations are now supported by Safari. Bilingual dictionaries have been added for Russian – English and Portuguese – English. Arabic fonts are now supported by the system. Removed Functionality The iCloud Drive app has been removed in favor of the redesigned and more capable Files app. The native iOS system integrations for Facebook, Twitter, Flickr, and Vimeo have been removed. Security Notes: 11.0.1 15A402/15A403 15A8391 PXI PXQ September 26, 2017; 3 years ago (2017-09-26) November 3, 2017; 3 years ago (2017-11-03) on iPhone X Initial release on iPhone X. Bug Fixes Fixes an issue with Exchange email servers where email would fail to send.[147] Security Notes: Identical to iOS 11.0. 11.0.2 15A421 October 3, 2017; 3 years ago (2017-10-03) Bug Fixes Fixes an issue where, for a small amount of iPhone 8 / 8 Plus users, a crackling sound had the chance of occurring while on a call. Fixes an issue where some photos could end up becoming hidden. Fixes an issue where some email attachments would not open. Security Notes: Identical to iOS 11.0. 11.0.3 15A432 October 11, 2017; 3 years ago (2017-10-11) Bug Fixes Fixes an issue where haptic feedback was not working on some devices. Fixes an issue where touch was not working properly due to the displays not being replaced with genuine Apple displays. Security Notes: Identical to iOS 11.0. iOS 11.1 iPad: iPad (5th) Air (1st, 2) Mini (2, 3, 4) Pro (1st, 12.9 & 9.7; 2nd, 12.9 & 10.5) iPhone: 5S SE (1st) 6 6 Plus 6S 6S Plus 7 7 Plus 8 8 Plus X iPod touch: 6th Version Build Release date Features 11.1 15B93/15B101 October 31, 2017; 3 years ago (2017-10-31) New Features Emoji More than 70 new emoji characters were added. Bug Fixes and Improvements 3D Touch Restores the ability to access the App Switcher by hard pressing on the edge of a display with 3D Touch enabled. Accessibility Improves support for Braille with Grade 2 input. Improves access to multi-page PDFs with VoiceOver. Fixes and improvements to VoiceOver rotor. Photos Fixes an issue where some photos could become blurry. Fixes an issue where Live Photo effects would play slowly. Fixes an issue when restoring photos from an iCloud Backup. Fixes an issue that could cause a performance implication when swiping between device screenshots. Other Fixes Fixes an issue where already cleared notifications sent from the Mail app could reappear on the Lock Screen. Fixes an issue where data could not be moved between managed apps in enterprise environments. Fixes an issue with some 3rd-party GPS accessories giving inaccurate results. Fixes an issue where settings for Heart Rate notifications would appear in the Apple Watch app for 1st generation devices. Fixes an issue on Apple Watch where app icons would refuse to appear in notifications. Security Notes: 11.1.1 15B150 November 9, 2017; 3 years ago (2017-11-09) Bug Fixes Fixes an issue with keyboard auto-correct. Fixes an issue where Hey Siri would stop working. Security Notes: Identical to iOS 11.1. 11.1.2 15B202 November 16, 2017; 3 years ago (2017-11-16) Bug Fixes Fixes an issue where a rapid drop in temperature caused problems with the touch screen of the iPhone X. Fixes an issue where distortion could be caused in Live Photos and videos captured on the iPhone X. Security Notes: Identical to iOS 11.1. iOS 11.2 iPad: iPad (5th) Air (1st, 2) Mini (2, 3, 4) Pro (1st, 12.9 & 9.7; 2nd, 12.9 & 10.5) iPhone: 5S SE (1st) 6 6 Plus 6S 6S Plus 7 7 Plus 8 8 Plus X iPod touch: 6th Version Build Release date Features 11.2 15C114 December 2, 2017; 3 years ago (2017-12-02) New Features Apple Pay Cash (US only) Improvements Improved wireless charging on the iPhone 8 / 8 Plus and iPhone X. Three new Live Wallpapers have been added on the iPhone X. Improves stabilization for videos in the Camera. Apple Podcasts now has the ability to automatically advance to the next episode in the current podcast / show. HealthKit now has distance while skiing or snowboarding as an activity. Bug Fixes and Reliability Improvements Fixes an issue where Mail would appear to be checking for new messages even after a download has successfully completed. Fixes an issue where cleared Mail notifications from Exchange accounts had a chance to reappear. Improved stability in the Calendar app. Fixes an issue where the Settings app had the chance of opening to a blank / empty screen. Fixes a potential issue that could prevent the ability to swipe to the Today View or the Camera from the Lock Screen. Fixes a potential issue with displays on the Home Screen and Lock Screen. Fixes an issue that could prevent users from being able to delete recent photos from iCloud when their storage limit has been exceeded. Fixes an issue that could prevent Find my iPhone from displaying the map. Fixes an issue with truncated and overlapping content in Messages. Fixes an issue in Calculator where rapidly typing numbers could lead to incorrect calculation results. Fixes an issue that could cause the keyboard to appear slowly. Accessibility Introduces support for Real-time text calls. Improves the stability of VoiceOver in the following apps: Messages, Settings, App Store, and Music. Fixes an issue with VoiceOver to announcements. Security Notes: 11.2.1 15C153 December 13, 2017; 3 years ago (2017-12-13) Bug Fixes Fixes an issue where remote access could unexpectedly be disabled for shared users in the Home app. Security Notes: 11.2.2 15C202 January 8, 2018; 3 years ago (2018-01-08) Security Improvements Security fix included to mitigate the effects of the Spectre vulnerability. Security Notes: 11.2.5 15D60 January 23, 2018; 3 years ago (2018-01-23) This update introduces support for the HomePod. New Features Support for the HomePod Users can setup and automatically transfer their Apple ID, Apple Music, Siri and Wi-Fi settings to their HomePod. Siri News (US, UK and AU regions only) Siri now has the ability to read the

issue that could prevent Screen Time from reporting specific websites in the activity report Fixes an issue that could prevent adding or removing family members from Family Sharing Improves reliability of VoiceOver in Camera, Siri and Safari Fixes an issue that could cause MDM Device Enrolment to report an Invalid Profile error for some enterprise users Security 12.1.1 16C50 December 5, 2018; 2 years ago (2018-12-05) Features and improvements Notification preview using haptic touch on iPhone XR Dual SIM with eSIM for additional service providers on iPhone XR, iPhone XS and iPhone XS Max One-tap to flip between the rear and front-facing camera during a FaceTime call Live Photo capture during one-to-one FaceTime calls The option to hide the sidebar in News on iPad in landscape orientation National Relay Service (NRS) when using Wi-Fi calling on iPad and iPod touch Stability improvements for dictation and VoiceOver Bug fixes Fixes an issue where Face ID may temporarily become unavailable Fixes an issue that prevented visual voicemail from downloading for some customers Fixes an issue in Messages that could prevent predictive text suggestions when typing on the Chinese or Japanese keyboards Fixes an issue that could prevent Voice Memos recordings from uploading to iCloud Fixes an issue where time zones may not have updated automatically HomePod compatibility Support in Mainland China and Hong Kong HomePod LEDs illuminate during Group FaceTime calls Security 12.1.2 16C104 December 20, 2018; 2 years ago (2018-12-20) iPhone only Bug fixes Fixes bugs with eSIM activation for iPhone XR, iPhone XS, and iPhone XS Max Fixes an issue that could affect cellular connectivity in Turkey for iPhone XR, iPhone XS, and iPhone XS Max 12.1.3 16D39/16D40 January 22, 2019; 2 years ago (2019-01-22) Bug fixes Fixes an issue in Messages that could impact scrolling through photos in the Details view Fixes an issue where photos could have striped artifacts after being sent from the Share Sheet Fixes an issue that may cause audio distortion when using external audio input devices on iPad Pro (2018) Fixes an issue that could cause certain CarPlay systems to disconnect from iPhone XR, iPhone XS, and iPhone XS Max HomePod bug fixes Fixes an issue that could cause HomePod to restart Fixes an issue that could cause Siri to stop listening 12.1.4 16D57 February 7, 2019; 2 years ago (2019-02-07) Security iOS 12.2 iPad: iPad (5th, 6th) Air (1st, 2, 3rd) Mini (2, 3, 4, 5th) Pro (1st, 12.9 & 9.7; 2nd, 12.9 & 10.5; 3rd, 11 & 12.9) iPhone: 5S 6/6 Plus 6S/6S Plus SE (1st) 7/7 Plus 8/8 Plus X XR XS/XS Max iPod touch: 6th ‘‘Limited support on devices that have less than 2 GB of RAM (the iPhone 5S, iPhone 6/6 Plus, iPod Touch (6th generation), iPad Mini 2, iPad Mini 3, and iPad Air) Version Build Release date Features 12.2 16E227 March 25, 2019; 23 months ago (2019-03-25) Initial release on iPad Mini (5th generation) and iPad Air (3rd generation) Apple News+ released and Apple News in Canada New Animoji Air Quality information in US, UK, India and can turn off weather information in Apple Maps New Screen Time scheduling options Wallet layout changes, Apple Pay Cash can transfer to a bank account Third party support for AirPlay 2 AppleTV remote layout redesigned AT&T 5G E icon added Warranty information available in Settings Safari Enables TLS 1.3 support Stronger messages for non-secure sites Do Not Track removed, motion data privacy option Password autofill submits the form automatically Siri Hey Siri support on AirPods Play videos on AppleTV Inline music playback Security iOS 12.3 iPad: iPad (5th, 6th) Air (1st, 2, 3rd) Mini (2, 3, 4, 5th) Pro (1st, 12.9 & 9.7; 2nd, 12.9 & 10.5; 3rd, 11 & 12.9) iPhone: 5S 6/6 Plus 6S/6S Plus SE (1st) 7/7 Plus 8/8 Plus X XR XS/XS Max iPod touch: 6th 7th Limited support on devices that have less than 2 GB of RAM (the iPhone 5S, iPhone 6/6 Plus, iPod Touch (6th generation), iPad Mini 2, iPad Mini 3, and iPad Air) Version Build Release date Features 12.3 16F156 May 13, 2019; 22 months ago (2019-05-13) Redesigned Apple TV App AirPlay 2 support for Smart TVs iOS now disables Bluetooth accessories with insecure connections. Now you can follow a magazine with Apple News+ catalog view Updates throughout the day for Apple Music's For You tab Other bug fixes and stability improvements 12.3.1 16F203/16F8202 May 24, 2019; 22 months ago (2019-05-24) May 28, 2019; 21 months ago (2019-05-28) on iPod Touch (7th generation) Initial release on iPod Touch (7th generation) Fixes an issue that could prevent making or receiving VoLTE calls Fixes issues in Messages that could cause messages from unknown senders to appear in your conversation list even though Filter Unknown Senders is enabled Fixes an issue that could prevent the Report Junk link from appearing in Messages threads from unknown senders 12.3.2 16F250 June 10, 2019; 21 months ago (2019-06-10) iPhone 8 Plus only Fixes an issue with taking pictures in portrait mode iOS 12.4 iPad: iPad (5th, 6th) Air (1st, 2, 3rd) Mini (2, 3, 4, 5th) Pro (1st, 12.9 & 9.7; 2nd, 12.9 & 10.5; 3rd, 11 & 12.9) iPhone: 5S 6/6 Plus 6S/6S Plus SE (1st) 7/7 Plus 8/8 Plus X XR XS/XS Max iPod touch: 6th 7th Limited support on devices that have less than 2 GB of RAM (the iPhone 5S, iPhone 6/6 Plus, iPod Touch (6th generation), iPad Mini 2, iPad Mini 3, and iPad Air) Version Build Release date Features 12.4 16G77 July 22, 2019; 20 months ago (2019-07-22) Support for wirelessly transferring data between iPhone during initial setup Important security fix for Apple Watch Walkie-Talkie app concerning eavesdropping[148][149] HomePod support in Japan and Taiwan Other bug fixes and improvements 12.4.1 16G102 August 26, 2019; 18 months ago (2019-08-26) Security update: patches a vulnerability that was accidentally unpatched in the previous update, allowing jailbreaks and hacking attempts to take place.[150] Post-iOS 13 security updates (iPhone 5S, iPhone 6/6 Plus, iPad Air, iPad Mini 2, iPad Mini 3 and iPod Touch (6th generation) only) 12.4.2 16G114 September 26, 2019; 17 months ago (2019-09-26) Security update: patches a vulnerability that permitted an attacker to access a user's phone and terminate running applications and potentially execute an arbitrary code execution attack.[151] 12.4.3 16G130 October 28, 2019; 16 months ago (2019-10-28) Security update: Corrected an issue where AirDrop file transfers could be unexpectedly accepted while the user has permitted AirDrop file transfer requests from everyone.[152] 12.4.4 16G140 December 10, 2019; 15 months ago (2019-12-10) Security update: patches a vulnerability that permitted an attacker to access a user's phone and execute arbitrary code with a malicious FaceTime video.[153] 12.4.5 16G161 January 28, 2020; 13 months ago (2020-01-28) Security update; no published CVE entries 12.4.6 16G183 March 24, 2020; 12 months ago (2020-03-24) Security update; no published CVE entries 12.4.7 16G192 May 20, 2020; 10 months ago (2020-05-20) Security Update: [154] Corrected an issue where a maliciously crafted email could unexpectedly lead to heap corruption Corrected an issue where a maliciously crafted email could unexpectedly modify memory or terminate applications Corrected a vulnerability where a remote attacker could unexpectedly corrupt kernel memory or cause system termination. 12.4.8 16G201 July 15, 2020; 8 months ago (2020-07-15) Security update; no published CVE entries 12.4.9 16H5 November 5, 2020; 4 months ago (2020-11-05)[155] Security update[156] iOS 12.5 iPad: Air (1st) Mini (2, 3) iPhone: 5S 6/6 Plus iPod touch: 6th Version Build Release date Features 12.5 16H20 December 14, 2020; 3 months ago (2020-12-14)[157] Support for COVID-19 Exposure Notifications[158] Security fixes[159] 12.5.1 16H22 January 11, 2021; 2 months ago (2021-01-11) Fixes an issue where Exposure Notifications could incorrectly display logging profile language. iOS 13 / iPadOS 13 Apple announced iOS 13 on June 3, 2019, at its annual Apple Worldwide Developers Conference (WWDC) event, and it was released to the public on September 19, 2019 alongside the iPhone 11 series (11, 11 Pro, 11 Pro Max). The principal features include dark mode and Memoji support for A9+ devices. The NFC framework now supports reading several types of contactless smartcards and tags.[160] The iPad gains several tablet-oriented features, and its operating system has been rebranded as iPadOS; iPadOS 13 was announced at the 2019 WWDC as well. With this release, Apple dropped support for all devices with less than 2 GB of RAM, which included the iPhone 5S and iPhone 6 and 6 Plus, iPod Touch (6th generation), iPad Mini 2, iPad Mini 3, and iPad Air. iOS 13/iPadOS 13 has limited support on devices with the A8/A8X.[161] However, all other devices from the iPhone 6s/6s Plus onwards, iPod Touch (7th generation), iPad Pro (1st generation), iPad (5th generation), and iPad Mini (5th generation) onwards are fully supported (A9 and A10 devices having almost full support, A11 and on having full support). iOS 13 brought support for the iPhone 11 and iPhone 11 Pro / Pro Max, second-generation iPhone SE, and iPadOS 13 brought support for the iPad (7th generation), the iPad Pro (12.9-inch, 4th generation) and the iPad Pro (11-inch, 2nd generation). iOS 13.0 iPhone: 6S/6S Plus SE (1st) 7/7 Plus 8/8 Plus X XR XS/XS Max 11 11 Pro/11 Pro Max Only available on iPhone. Version Build Release date Features 13.0 17A577 September 19, 2019; 18 months ago (2019-09-19) Initial release on iPhone 11 and iPhone 11 Pro / iPhone 11 Pro Max The OS on the iPad 2017, 2018, Air 2, Air 3, Mini 4, Mini 5, and Pro line has been renamed to iPadOS. It is similar to iOS 13, but has some features exclusively for iPad.[162] Dark Mode When enabled, the UI, native apps, and supported third-party apps undergo a basic light-on-dark color scheme, and the iOS 13 wallpapers have a darker color scheme. The user can also set a schedule for what time Dark Mode comes on, and what time Light Mode comes back on. Siri Siri's voice is now done by software called "Neural TTS" instead of human voice clips, making Siri sound much more natural. Siri can now play audio, including music, podcasts, audio books, and radio, with third-party apps. There is now an option for an Indian-English voice. Siri now offers personalized suggestions in Apple Podcasts, Safari, and Maps. Siri can also now detect reminders in messages and events in third-party apps. Siri can now tune into radio shows on command. Keyboard The QuickType keyboard now includes QuickPath, which allows the user to type in a word by sliding a finger between the letters without moving it up. QuickPath supports English, Simplified Chinese, Spanish, German, French, Italian, and Portuguese. Swiping or tapping to type works interchangeably, even mid-sentence. Alternate word options now appear in the predictive bar. Dictation will automatically detect what language a user is speaking. This language will be chosen from up to four keyboard languages enabled on the device. Camera After taking a picture in Portrait Mode, the user can adjust the position and intensity of each Portrait lighting effect. A new Portrait Lighting effect, called High-Key Mono, "creates a beautiful, classic look with a monochromatic subject on a white background." Portrait Segmentation API now has skin, hair, and teeth segmentation. All-new Camera app on the iPhone 11 series App Store Apple Arcade: A new subscription service with over 100 new games, with no ads or additional purchases. The Updates tab found in iOS 12 and earlier has been removed and merged into the Account bottom sheet. The App Store now has support for Arabic and Hebrew in stories, collections and lists, product pages, and searches. Apps with large sizes (especially games) can now be downloaded over a cellular connection, but the user will be warned if the file size exceeds a certain threshold. Maps The map itself has been redone from the ground up. According to Apple, it features "significantly improved and more realistic details" for areas like roads, beaches, parks, buildings, and more. The user can now explore the area they are going to before they arrive with a 3D, 360-degree experience. Collections of favorite locations can be built and shared with others. The user can now make a list of places they visit often to access them quickly. A feature called Junction View helps drivers in China eliminate wrong turns and directional misses by lining them up in the correct lane before they need to turn or enter an elevated road. The process of submitting customer feedback has been redesigned to be faster. Siri's navigation uses more natural language. For example, instead of saying "in x feet turn left," it says "turn left at the next traffic light". Navigation is also more accurate. The user can now see departure times live, the location of their bus or train on its route, and a more detailed schedule of transit stops. Flight details now include info about a terminal, gate locations, departure times, and more. Place cards have more improved info, such as Today @ Apple sessions at Apple Store locations, and movie theater time listings. MapKit now has vector overlays, point-of-interest filtering, camera zoom and pan limits, and Dark Mode support. CarPlay now has easier route planning, search, and navigation. It also includes Junction View (China only), Favorites, and Collections. Apple Music Introduces support for lyrics synchronized to the song a user is currently listening to. Not all songs support this feature. Redesigns the Now Playing bottom sheet, moving the Up Next queue to a dedicated action, while moving the Shuffle and Repeat actions to the Up Next view. Adds over 100,000 live radio stations to the service. Performance Apps can now launch up to twice as fast as on iOS 12. Unlocking the iPhone X, XS, XS Max, and XR using Face ID is up to 30% faster compared to iOS 12. Apps from the App Store are packaged in a new way, making them as small as half the size compared to iOS 12, which makes them download faster and take up less storage. App updates are on average 60% smaller compared to iOS 12, allowing for faster downloads. Other Changes Introduces support for pinch to zoom in the Voice Memos app when editing voice recordings. Adds support for the DualShock 4 and Xbox One wireless controllers. iOS / iPadOS 13.1 iPad: iPad (5th, 6th, 7th) Air (2, 3rd) Mini (4, 5th) Pro (1st, 12.9 & 9.7; 2nd, 12.9 & 10.5; 3rd, 11 & 12.9) iPhone: 6S/6S Plus SE (1st) 7/7 Plus 8/8 Plus X XR XS/XS Max 11 11 Pro/11 Pro Max iPod touch: 7th Limited support on iPad Air 2 and iPad Mini 4 Version Build Release date Features 13.1 17A844 September 24, 2019; 18 months ago (2019-09-24) Initial release on iPad (7th generation) New Features and Improvements AirDrop Shortcuts Maps Battery Health Bug Fixes[163] 13.1.1 17A854 September 27, 2019; 17 months ago (2019-09-27) Bug Fixes 13.1.2 17A860/17A861 September 30, 2019; 17 months ago (2019-09-30) Bug Fixes 13.1.3 17A878 October 15, 2019; 17 months ago (2019-10-15) Bug Fixes iOS / iPadOS 13.2 iPad: iPad (5th, 6th, 7th) Air (2, 3rd) Mini (4, 5th) Pro (1st, 12.9 & 9.7; 2nd, 12.9 & 10.5; 3rd, 11 & 12.9) iPhone: 6S/6S Plus SE (1st) 7/7 Plus 8/8 Plus X XR XS/XS Max 11 11 Pro/11 Pro Max iPod touch: 7th Limited support on iPad Air 2 and iPad Mini 4 Version Build Release date Features 13.2 17B84 October 28, 2019; 16 months ago (2019-10-28) Camera Better representation of colors and lighting Ability to adjust video resolution and framerate within the Camera app P11 P11P P11PM Deep Fusion on the iPhone 11 series Volume HUD and Control Center The volume indicator disappears from view quicker When connected to an audio device, an icon of the device will appear within the volume indicator 3D Touch/Haptic Touch New sound when invoking 3D Touch/Haptic Touch, reminiscent of sounds made when typing on the keyboard Icons on the Home screen can be deleted directly from the 3D Touch/Haptic Touch menu Multitasking line is smaller if there are 3 apps or less Emoji 59 new emoji Some emoji, specifically couples, use a new emoji picker to select different skin tones or genders Reintroduced "Announce Messages with Siri" Bug Fixes Delete Event is now available again for Calendar invites originating from emails Provides support for new HomePod features [Update Pulled for HomePod][164] The ability for HomePod to recognize the voices of different family members to provide a personalized experience Handoff music, podcasts or phone calls by bringing the iPhone close to HomePod Add music to HomeKit scenes Play relaxing high-quality soundtracks with Ambient Sounds Set sleep timers to fall asleep to music or Ambient Sounds 13.2.1 17B90 October 30, 2019; 16 months ago (2019-10-30) HomePod-only update Fixes an issue caused by iOS 13.2 that bricked HomePod devices when installed or after a reset. 13.2.2 17B102 November 7, 2019; 16 months ago (2019-11-07) Bug fixes and improvements. 13.2.3 17B111 November 18, 2019; 16 months ago (2019-11-18) Bug fixes and improvements. iOS / iPadOS 13.3 iPad: iPad (5th, 6th, 7th) Air (2, 3rd) Mini (4, 5th) Pro (1st, 12.9 & 9.7; 2nd, 12.9 & 10.5; 3rd, 11 & 12.9) iPhone: 6S/6S Plus SE (1st) 7/7 Plus 8/8 Plus X XR XS/XS Max 11 11 Pro/11 Pro Max iPod touch: 7th Limited support on iPad Air 2 and iPad Mini 4 Version Build Release date Features 13.3 17C54 December 10, 2019; 15 months ago (2019-12-10) [165] Screen Time Communication Limits: In the Screen Time app, time limits can now be set for phone calls, messages, and FaceTime calls. Individual limits can be set for each contact. Apple News There is a new layout for Apple News+ stories from some "leading newspapers" such as the Wall Street Journal. There is now a quick option to like or dislike a story from the main page. Stocks Stories from Apple News have been made available in Canada in English and French. There is a new "continue reading" option with links to more stories that are related or from the same publisher. New "Breaking" and "Developing" labels for Top Stories Safari Bug Fixes & Other Improvements Security Notes: 13.3.1 17D50 January 28, 2020; 13 months ago (2020-01-28) Bug fixes and improvements. iOS / iPadOS 13.4 iPad: iPad (5th, 6th, 7th) Air (2, 3rd) Mini (4, 5th) Pro (1st, 12.9 & 9.7; 2nd, 12.9 & 10.5; 3rd, 11 & 12.9; 4th, 11 & 12.9) iPhone: 6S/6S Plus SE (1st) 7/7 Plus 8/8 Plus X XR XS/XS Max 11 11 Pro/11 Pro Max SE (2nd) iPod touch: 7th Limited support on iPad Air 2 and iPad Mini 4 Version Build Release date Features 13.4 17E2551 7E8255PSE2G March 24, 2020; 12 months ago (2020-03-24)April 24, 2020; 11 months ago (2020-04-24)PSE2G Initial release on iPad Pro (4th generation, 12.9-inch, 2nd generation, 11-inch) and iPhone SE (2nd generation) Memoji Files Mail App Store with Apple Arcade CarPlay Augmented Reality Keyboard Bug Fixes and Improvements Security Notes: 13.4.1 17E26217E8258PSE2G April 7, 2020; 11 months ago (2020-04-07)April 23, 2020; 11 months ago (2020-04-23)PSE2G Bug fixes, including an issue that prevented FaceTime calls with devices running iOS 9.3.6 or OS X El Capitan 10.11.6 or older iOS / iPadOS 13.5 iPad: iPad (5th, 6th, 7th) Air (2, 3rd) Mini (4, 5th) Pro (1st, 12.9 & 9.7; 2nd, 12.9 & 10.5; 3rd, 11 & 12.9; 4th, 11 & 12.9) iPhone: 6S/6S Plus SE (1st) 7/7 Plus 8/8 Plus X XR XS/XS Max 11 11 Pro/11 Pro Max SE (2nd) iPod touch: 7th Limited support on iPad Air 2 and iPad Mini 4 Version Build Release date Features 13.5 17F75 May 20, 2020; 10 months ago (2020-05-20) Face ID and Passcode Exposure Notification API FaceTime Emergency Services Bug Fixes and Other Improvements Security Notes: 13.5.1 17F80 June 1, 2020; 9 months ago (2020-06-01) Security Update Patches CVE-2020-9859, a memory consumption vulnerability that can be used by an application to perform arbitrary code execution with kernel privileges.[166] This vulnerability was used by the unc0ver jailbreak. iOS / iPadOS 13.6 iPad: iPad (5th, 6th, 7th) Air (2, 3rd) Mini (4, 5th) Pro (1st, 12.9 & 9.7; 2nd, 12.9 & 10.5; 3rd, 11 & 12.9; 4th, 11 & 12.9) iPhone: 6S/6S Plus SE (1st) 7/7 Plus 8/8 Plus X XR XS/XS Max 11 11 Pro/11 Pro Max SE (2nd) iPod touch: 7th Limited support on iPad Air 2 and iPad Mini 4 Version Build Release date Features 13.6 17G68 July 15, 2020; 8 months ago (2020-07-15) CarKey Allows users to unlock, lock, and start compatible cars with an iPhone. Uses NFC to communicate with compatible vehicles. Can be found in the Wallet app. Features iCloud integration: Allows the removal of digital keys from devices that have been lost. iMessage: Share digital keys with contacts using iMessage, potentially with restrictions. Power Reserve: Allows users to unlock / start their car up to five hours after their iPhone has run out of battery. Health New 'Symptoms' section in the Health app. News Apple News+ Audio: Allows the user to listen to news stories as opposed to reading them, if subscribed to Apple News+. Bug Fixes & Other Improvements Settings Improvements Automatic Updates Renamed to "Customize Automatic Updates" from "Automatic Updates". The "Automatic Updates" toggle was renamed to "Download iOS Updates". If this toggle is enabled, an additional toggle labelled "Install iOS Updates" becomes visible, allowing users to automatically install new updates. COVID-19 Exposure Logging Enabled in more regions and states. If not available in a given user's region, a notice letting the user know that the feature is "not currently available in their region" as well as a description of what the feature does is now visible. Bug Fixes An issue has been fixed that could cause apps to become unresponsive while syncing from iCloud Drive. Fixes an issue that could cause calls originating from Saskatchewan to appear as originating from the United States. Release Notes: Security Notes: 13.6.1 17G80 August 12, 2020; 7 months ago (2020-08-12) Bug Fixes & Other Improvements Addresses an issue where unneeded system data files might not be automatically deleted when available storage is low Fixes a thermal management issue that caused some displays to exhibit a green tint Fixes an issue where Exposure Notifications could be disabled for some users iOS / iPadOS 13.7 iPad: iPad (5th, 6th, 7th) Air (2, 3rd) Mini (4, 5th) Pro (1st, 12.9 & 9.7; 2nd, 12.9 & 10.5; 3rd, 11 & 12.9; 4th, 11 & 12.9) iPhone: 6S/6S Plus SE (1st) 7/7 Plus 8/8 Plus X XR XS/XS Max 11 11 Pro/11 Pro Max SE (2nd) iPod touch: 7th Limited support on iPad Air 2 and iPad Mini 4 Version Build Release date Features 13.7 17H35 September 1, 2020; 6 months ago (2020-09-01) Support Exposure Notifications Express.[167] Allows to opt-in to COVID-19 exposure notifications without the need to download an app Depends on local health authority An app is still required to report positivity to COVID-19 iOS 14 / iPadOS 14 Apple announced iOS 14 and iPadOS 14 on June 22, 2020 at its annual WWDC 2020 event, with a developer beta released on the same day and a public beta released on July 9, 2020.[168] iOS 14 and iPadOS 14 were released on September 16, 2020. All devices that supported iOS 13 also support iOS 14. This makes the iPad Air 2 the first device to support seven versions of iOS and iPadOS, from iOS 8 to iPadOS 14. Some new features introduced in iOS 14 and iPadOS 14 include redesigned widgets that can now be placed directly on the homescreen, along with the App Library, which automatically categorizes apps into one page, Picture in Picture in iPhone and iPod touch, and the CarKey technology to unlock and start a car with NFC. iOS and iPadOS 14 also allow the user to have incoming calls shown in banners rather than taking up the whole screen (the latter view is still available as an optional function).[169] The release of iPadOS 14.0 brought support for the 8th generation iPad and the 4th generation iPad Air and the release of iOS 14.1 brought support for the iPhone 12, the iPhone 12 Mini and the iPhone 12 Pro and Pro Max. iOS 14 and iPadOS 14 have limited support on devices with A8, A8X, A9, A9X and A10 chips.[citation needed] iOS / iPadOS 14.0 iPad: iPad (5th, 6th, 7th, 8th) Air (2, 3rd, 4th) Mini (4, 5th) Pro (1st, 12.9 & 9.7; 2nd, 12.9 & 10.5; 3rd, 11 & 12.9; 4th, 11 & 12.9) iPhone: 6S/6S Plus SE (1st) 7/7 Plus 8/8 Plus X XR XS/XS Max 11 11 Pro/11 Pro Max SE (2nd) iPod touch: 7th Limited support on iPhone 6S, iPhone 7, iPhone SE (1st generation), iPod Touch (7th generation), iPad (5th generation), iPad (6th generation), iPad (7th generation), iPad Air 2, iPad Mini 4 and iPad Pro (1st generation) Version Build Release date Features 14.0 18A373 September 16, 2020; 6 months ago (2020-09-16) Main articles: iOS 14 and iPadOS 14 Initial release on iPad (8th generation) and iPad Air (4th generation) All-new widgets Redesigned widgets can be placed right on the Home Screen Small, medium and large widget sizes allow you to pick the amount of information to display Widget stacks make the most of your Home Screen space and the Smart Stack uses on-device intelligence to surface the right widget at the right time Widget gallery includes all available widgets to browse and choose from Redesigned Apple widgets for Weather, Clock, Calendar, News, Maps, Fitness, Photos, Reminders, Stocks, Music, TV, Tips, Notes, Shortcuts, Battery, Screen Time, Files, Podcasts, and Siri Suggestions App Library The App Library automatically organizes all of your apps into categories The Suggestions category uses on-device intelligence to show apps you're likely to be looking for based on factors like time of day or location The Recently Added category shows apps that were recently downloaded from the App Store, as well as App Clips that were recently launched Ability to hide Home Screen pages to get to the App Library even faster by tapping on the dots at the bottom of the screen while in jiggle mode Compact design Incoming Phone and FaceTime calls appear as a banner at the top of the screen Siri has a compact design that allows you to refer to information onscreen and seamlessly launch into your next task Picture in Picture enables watching a video or taking a FaceTime call while you use another app Messages Pinned conversations keep up to nine of your favorite message threads at the top of the list Mentions let you direct a message to an individual in a group conversation Inline replies let you reply to a specific message and see all related messages in their own view Group photos can be customized for a shared group look Memoji 11 new hairstyles and 19 new headwear styles to customize your Memoji New Memoji stickers to send a fist bump, hug or blush Six added age options Face covering options Maps Cycling directions provide routes along bike lanes, bike paths, and bike-friendly roads, taking into consideration elevation or how busy a street is Guides offer recommendations for places to eat, meet friends, or explore, curated by a selection of trusted brands Electric vehicle routing helps you plan trips with supported electric vehicles and automatically adds charging stops along your route Congestion zones help you route around or through active zones in cities like London or Paris Speed cameras let you know when you're approaching speed and red-light cameras along your route Refine Location enables a highly accurate location and orientation when in urban areas with a poor GPS signal App Clips An App Clip is a small part of an app that developers can create and that is discoverable at the moment you need it, and focused on a specific task Small by design, App Clips are usable in a few seconds Discover App Clips through tapping NFC tags or scanning QR codes, from Messages, Maps, and Safari Recently used App Clips show up in App Library's Recently Added category, and you can download the full version of the app if you want to keep it around Translate The new Translate app is designed for conversations and can work completely offline so your conversations stay private A split-screen design in conversation mode has a single microphone button that automatically detects which of the selected languages is being spoken and transcribes the original and translated text on the correct sides of the screen Attention mode shows translations in larger text so you can capture someone's attention Voice and text translations are supported for any combination of 11 languages Siri A new compact design allows you to refer to information onscreen and seamlessly launch into your next task Expanded knowledge brings 20x more facts than three years ago Web answers help find answers to a broader set of questions using information from across the internet Audio messages can be sent with Siri on iOS and CarPlay Expanded language support for the new Siri voice and Siri translation Search One place where you can find everything: search for apps, contacts, files, quick information like weather and stocks, common knowledge questions about people or places, or even quickly start a web search Top Hit results show the most relevant information including apps, contacts, knowledge, points of interest and websites Quick Launcher allows you to launch an app or website by typing a few characters As-you-type search suggestions show more relevant results as soon as you start typing Web search suggestions to launch Safari and get the most relevant web results Start a search in apps like Mail, Messages and Files Home Suggested automations help you set up automations with just a tap A visual status at the top of the Home app gives you a summary of accessories that require your attention Dynamic suggestions of the most relevant accessories and scenes appear in Home controls in Control Center Adaptive Lighting automatically adjusts the color of your smart light bulbs throughout the day to maximize comfort and productivity Face Recognition for video cameras and doorbells uses on-device intelligence to let you know who is there based on the people you've tagged in your Photos app and recent visitors you identify in the Home app Activity Zones for video cameras and doorbells captures video or sends you a notification only when motion is detected in areas you define Safari Improved performance with an even faster JavaScript engine A Privacy Report shows cross-site trackers that are being blocked by Intelligent Tracking Prevention Password monitoring securely screens your saved passwords for any that may have been involved in a data breach Web page translation (beta) translates entire web pages in English, Spanish, Simplified Chinese, French, German, Russian or Brazilian Portuguese Weather Next-hour precipitation chart shows a minute-by-minute forecast of the intensity of rain or snow over the coming hour for the U.S. Severe weather information displays government-issued alerts about certain severe weather events including tornados, winter storms, flash floods and more, for the U.S., Europe, Japan, Canada, and Australia AirPods Spatial audio with dynamic head tracking on AirPods Pro places sounds anywhere in space, creating an immersive surround sound experience Automatic device switching transfers audio from your iPhone, iPad, iPod touch, and Mac Battery notifications let you know if you need to charge your AirPods Privacy A recording indicator is displayed whenever an app has access to the microphone or camera Approximate location can now be shared with an app, rather than sharing your precise location Limited Photos library access gives you the option to share only selected photos with an app whenever an app asks for access App and web developers can now offer the option for you to upgrade your existing accounts to Sign in with Apple Accessibility Back Tap is a quick way to trigger accessibility features by tapping on the back of your iPhone Headphone accommodations amplify soft sounds and adjust certain frequencies, customized for an individual's hearing Sign language prominence in FaceTime detects when a participant is using sign language and makes the person prominent in a Group FaceTime call Sound Recognition uses on-device intelligence to detect and identify important sounds such as alarms, and alerts you to them using notifications VoiceOver Recognition uses on-device intelligence to recognize elements on your screen to improve VoiceOver support for app and web experiences Image descriptions read complete-sentence descriptions of images and photos within apps and on the web Text recognition speaks the text identified within images and photos Screen Recognition automatically detects interface controls to aid in navigating apps App Store Important details about each app are displayed in a glanceable, scrollable view, including a way to see the games your friends are playing Apple Arcade Coming Soon gives you a sneak peek at upcoming Apple Arcade games and you can automatically download them as soon as they're released See All Games is improved with sorting and filtering by release date, updates, category, controller support and more Achievements are browsable right from within the Apple Arcade tab Continue Playing makes it easy to resume recently played games across devices Game Center dashboard showcases your profile, friends, achievements, leaderboards and more, all from within your game Apple Cash Family Apple Cash can be enabled for up to five family members under 18 Send money to your child through Messages or by asking Siri Notifications for purchases or person to person payments as they occur Parental controls to limit who your children can send money to Option to turn off Apple Cash for family members under 18 Shared oversight with another adult in your Family Sharing group Augmented Reality Location Anchors in ARKit 4 enables apps to place AR experiences at a specific geographic coordinate Extended face tracking support is extended to the new iPhone SE Video textures in RealityKit enable apps to apply video to any part of a scene or virtual object Camera Improved shot-to-shot performance speeds up the time to first shot and makes shooting photos even faster QuickTake video can now also be captured on iPhone XS and iPhone XR when in Photo mode Quick toggles in Video mode to change video resolution and frame rate from the Camera app Updated Night mode capture experience on iPhone 11 and iPhone 11 Pro provides guidance to help you stay steady throughout the capture, as well as an option to cancel the shot mid-capture Exposure compensation control lets you lock an exposure value for an entire camera session Mirror front camera lets you capture selfies that match the front camera preview Improved QR code reading to scan codes, even if they are small or wrapped around objects CarPlay New categories of supported apps for parking, EV charging, and quick food-ordering Wallpaper options Share ETA and send audio messages with Siri Horizontal status bar support for cars with portrait screens Chinese and Japanese keyboard support gives users an additional option to search for points of interest FaceTime Improved video quality with up to 1080p resolution on iPhone X and later New eye contact feature uses machine learning to subtly adjust the position of your eyes and face to make video calling more natural even when you're looking at the screen instead of the camera Files APFS encryption support for external drives Health Wind Down helps you create a pre-bedtime routine with apps and shortcuts, like listening to a relaxing playlist Custom sleep schedules help you meet your sleep goals with bedtime reminders and wakeup alarms Sleep mode minimizes distractions during Wind Down and Bedtime by turning on Do Not Disturb and simplifying your Lock screen Health Checklist helps you track and manage health and safety features in one place New Mobility category in the Health app, including metrics like walking speed, double support time, step length, and walking asymmetry Keyboard and International On-device dictation helps protect your privacy by performing all processing completely offline. Dictation in search uses server-based dictation in order to recognize terms you may be searching for from across the Internet. Search within the Emoji keyboard using a word or phrase Keyboard displays AutoFill suggestions from Contacts for email addresses, phone numbers, and more in apps New dictionaries for French-German, Indonesian-English, Japanese-Simplified Chinese, and Polish-English Wubi input method for Simplified Chinese Autocorrection support for Irish Gaelic and Norwegian Nynorsk Redesigned Japanese Kana keyboard with easier input for numbers Mail supports email addresses using non-Latin languages Music A new Listen Now tab for playing and discovering your favorite music, artists, playlists and mixes Autoplay keeps music playing when you reach the end of a song or playlist by finding similar songs to play Search now showcases music for your favorite genres and activities, and shows helpful suggestions as you type Library filtering helps you find artists, albums, playlists and other items in your library even faster Notes Enhanced actions menu provides easy access to locking, scanning, pinning and deleting Top Hits in search surfaces your most relevant search results Pinned Notes list can be collapsed or expanded Shape recognition enables drawing perfect lines, arcs and other shapes Enhanced scanning captures sharper scans and more precise auto-cropping Photos Filter and sort your collection to more easily locate and organize your photos and videos Pinch and zoom to quickly find your photos and videos in more places, like Favorites and Shared Albums Photos and videos caption support Live Photos taken using iOS 14 or iPadOS 14 will autoplay with improved stabilization in Years, Months and Days View Memories enhancements provide a more relevant selection of photos and videos and a larger music selection for Memory movies Redesigned image picker in apps uses the same smart search from the Photos app to help you easily find content to share Podcasts Listen Now is smarter and includes your personal episode queue and new episodes picked for you Reminders Assign reminders to people you share lists with New reminders can be created from the lists screen without having to enter a specific list Smart suggestions let you add dates, times and locations with a tap Personalized lists with emoji and newly added symbols Rearrange or hide smart lists Settings Option to set your default email and web browser Shortcuts Starter Shortcuts let you get started with a built-in folder of shortcuts, tailored for you Shortcuts automations are suggested based on your usage patterns Folders let you organize your shortcuts and can be added as widgets to the Home Screen New compact design for running shortcuts keeps you in context while you use another app New Automation triggers can run shortcuts based on receiving an email or message, your battery level, closing an app and more Wind Down Shortcuts provide a collection of relaxing shortcuts to help you get ready for a good night's sleep Voice Memos Folders help organize your Voice Memos recordings Favorites lets you mark your best recordings and quickly access them later Smart Folders automatically group together Apple Watch recordings, recently deleted recordings and recordings you marked as Favorites Enhance Recording reduces background noise and room reverberation [170] 14.0.1 18A393 September 24, 2020; 6 months ago (2020-09-24) Bug Fixes [171] Corrects a problem where default applications were reset after a device restart Camera previews now display properly on the iPhone 7 and iPhone 7 Plus Corrects an issue with devices being unable to access Wi-Fi Corrects an issue that where users were unable to send mail using certain providers Images now appear properly in the News widget iOS / iPadOS 14.1 iPad: iPad (5th, 6th, 7th, 8th) Air (2, 3rd, 4th) Mini (4, 5th) Pro (1st, 12.9 & 9.7; 2nd, 12.9 & 10.5; 3rd, 11 & 12.9; 4th, 11 & 12.9) iPhone: 6S/6S Plus SE (1st) 7/7 Plus 8/8 Plus X XR XS/XS Max 11 11 Pro/11 Pro Max SE (2nd) 12/12 Mini 12 Pro/12 Pro Max iPod touch: 7th Limited support on iPhone 6S, iPhone 7, iPhone SE (1st generation), iPod Touch (7th generation), iPad (5th generation), iPad (6th generation), iPad (7th generation), iPad Air 2, iPad Mini 4 and iPad Pro (1st generation) Version Build Release date Features 14.1 18A8395 October 20, 2020; 5 months ago (2020-10-20) Initial release on iPhone 12, iPhone 12 Mini, iPhone 12 Pro and iPhone 12 Pro Max[172] Support for HomePod Mini and MagSafe certified accessories Adds support for 10-bit HDR video playback and edit in Photos for iPhone 8 and later Addresses an issue where some widgets, folders, and icons were showing up in reduced size on the Home Screen Addresses an issue where dragging widgets on the Home Screen could remove apps from folders Fixes an issue where some messages in Mail were sent from an incorrect alias Fixes an issue that could prevent incoming calls from displaying region information Fixes an issue on some devices where selecting zoomed display mode and an alphanumeric passcode could result in the Lock Screen emergency call button overlapping with the text input box Addresses an issue where some users were occasionally unable to download or add songs to their library while viewing an album or playlist Fixes an issue that could prevent zeroes from appearing in Calculator Resolves an issue where streaming video resolution could temporarily be reduced at the start of playback Fixes an issue that prevented setting up a family member's Apple Watch for some users Resolves an issue where the Apple Watch case material was displayed incorrectly in the Apple Watch app Addresses an issue in the Files app that could cause some MDM-managed cloud service providers to incorrectly display content as unavailable Improves compatibility with Ubiquiti wireless access points [170] iOS / iPadOS 14.2 iPad: iPad (5th, 6th, 7th, 8th) Air (

bug by releasing the new version of iOS". AppAdvice. October 12, 2010. ^ "iOS 4.2 bringing speed improvements to iPhone 3G?". Engadget. November 8, 2010. Retrieved January 9, 2011. ^ a b c d "iOS 4.2 Software Update coming in November". Apple Inc. September 2010. ^ "Chinese URL supporting over Safari in iOS 4.2". Smallcampus.net (alex18181818). November 9, 2010. Archived from the original on July 24, 2011. ^ a b c "iOS 4.2 packs new, improved YouTube, FaceTime features and more". AppleInsider. September 2010. ^ "Apple – iOS 4.2 Software Update". ^ "About the security content of iOS 4.2". Apple. November 23, 2010. ^ "iOS 4.2 supports new tech to reduce network congestion, Nokia Siemens says". Engadget. November 30, 2010. ^ a b "One More Thing: The Verizon iPhone Runs iOS 4.2.5". TechCrunch. Retrieved January 17, 2018. ^ "Apple posts iOS 4.2.6 for CDMA iPhone ahead of Verizon launch". AppleInsider. Retrieved January 17, 2018. ^ "iPhone: System needs for Personal Hotspot". Retrieved May 17, 2011. ^ "Pwn2Own day 2: iPhone, BlackBerry beaten; Chrome, Firefox no-shows". Ars Technica. March 11, 2011. Retrieved March 21, 2013. ^ "Apple to Unveil Next Generation Software at Keynote Address on Monday, June 6". Apple Inc. (Press release). May 31, 2011. Retrieved November 10, 2017. ^ "iOS 5 Software Update". Apple Inc. Retrieved September 29, 2012. ^ "Apple adds earthquake warnings to iOS 5". The Daily Telegraph. August 23, 2011. Retrieved October 3, 2011. ^ "Apple adds early earthquake notifications to Japanese iPhones". Wired.com. August 23, 2011. Archived from the original on October 15, 2011. Retrieved October 3, 2011. ^ Steven Millward (June 25, 2011). "iOS 5 Adds Support for Popular Chinese Email Services". Retrieved February 19, 2017. ^ "HQ videos on YouTube over 3G". iPhonedownloadblog.com. June 8, 2011. Retrieved June 8, 2011. ^ "iOS 5 Beta 3 Lets You Mirror Facetime Calls on Your TV". Shoutpedia.com. Retrieved February 19, 2017. ^ "iOS 5 Features List – iMessage, Notification Center and Many More". Technically Personal!. June 7, 2011. Retrieved June 7, 2011. ^ "Apple seeds iOS 5.1 beta, Xcode 4.3 to developers". AppleInsider. Retrieved November 29, 2011. ^ "Does iOS 5.1 fix battery drain? Some say yes, some say no". News.cnet.com. March 9, 2012. Retrieved March 21, 2013. ^ "iOS 5.1 beta fixes iPhone 4S battery vampire". Gearburn. April 13, 2012. Retrieved March 21, 2013. ^ "iOS 6 Software Update". Apple Inc. Retrieved September 29, 2012. ^ "iOS 6: Which software features does my iPhone, iPad, or iPod Touch support?". Apple. November 26, 2012. p. HT5457. Retrieved March 27, 2013. ^ "iOS 6 Boasts Some Great New Features". Byte Revel. Retrieved July 20, 2012. ^ "Hidden Feature: iOS 6 Adds Finger-Rejection to iOS Devices – Update". Pocketnow. November 2, 2012. Retrieved August 6, 2018. ^ "Bluetooth A2DP trigger delay – affects navigation and other apps". Forums.macrumors.com. September 9, 2010. Retrieved August 6, 2018. ^ "iOS 6.1.1 Software Update". Apple Inc. Retrieved February 13, 2013. ^ "iOS 6.1.4 Software Update". Apple. May 2, 2013. Retrieved May 2, 2012. ^ "iPhone 5 users get an updated audio profile via iOS 6.1.4". Ars Technica. May 2, 2013. Retrieved May 4, 2013. ^ "Apple blocks unauthorized Lightning cables with iOS 7". PhoneArena. Retrieved September 22, 2013. ^ "Bring Full Screen contact pics back!". Retrieved March 12, 2014. ^ "iOS 7.1 Includes iBeacon Improvements". MacStories. March 10, 2014. Retrieved March 10, 2014. ^ "About the security content of iOS 7.1". Apple Inc. March 10, 2014. Retrieved March 10, 2014. ^ "iOS 7.1.1". support.apple.com. Retrieved December 21, 2017. ^ "Apple Releases iOS 7.1.1 With Touch ID Improvements, Bug Fixes". MacRumors. April 22, 2014. Retrieved April 22, 2014. ^ "Apple Releases iOS 7.1.2 With Mail Fixes, iBeacon Improvements". MacRumors. June 30, 2014. Retrieved June 30, 2014. ^ "Apple releases iOS 8 GM ahead of Sep. 17 public release". 9to5Mac. ^ "Apple – Apple Pay". Apple. ^ "iOS 8 to feature Wi-Fi calling [Update – T-Mobile Confirms, it's coming!]". TmoNews. June 2, 2014. Retrieved June 5, 2014. ^ "iOS 8 Tidbits: Randomized MAC Addresses, Safari Credit Card Scanning, Indoor Mapping, and More". macrumors.com. ^ "Apple – iOS 8 – Health". Apple. ^ "Apple – iOS 8 – Continuity". Apple. ^ "Apple Pay aims to replace your wallet with an iPhone". Macworld. September 9, 2014. ^ "iOS 8 lets native apps tap into Safari's AutoFill & Passwords for frictionless login experience". idownloadblog.com. ^ a b "iOS 8.1.3". apple.com. ^ "Apple seeds iOS 8 beta 4 to developers with redesigned Control Center, Health improvements, more". 9to5Mac. ^ "New for audio in iOS 8 & Yosemite: MIDI over Bluetooth LE, new inter-app audio features, more". 9to5Mac. ^ "iOS 8 beta 2 comes with native Podcasts app, brings QuickType keyboard to iPad, more". appleinsider.com. June 17, 2014. ^ "New 'Send Last Location to Apple' Feature Added to Find My iPhone in iOS 8". macrumors.com. ^ "Apple releases iOS 8.0.2 with fix for cellular and Touch ID issues". idownloadblog.com. ^ "Apple releases iOS 8.1 beta 2 to developers". 9to5Mac. ^ "Connect your iPhone, iPad, iPod Touch, and Mac using Continuity". Apple. October 16, 2014. Retrieved October 27, 2014. ^ "About the LTE options on your iPhone". apple.com. ^ "Use Airplane Mode on your iOS device". Archived from the original on March 5, 2016. ^ Logjam (computer security) ^ About the security content of iOS 8.4.1 Retrieved August 14, 2015. ^ a b c d e f "iOS 9, thoroughly reviewed". Ars Technica. September 2015. Retrieved October 22, 2015. ^ "Hands-On With Apple's 'News' App Introduced in iOS 9 Beta 3". macrumors.com. July 8, 2015. Retrieved August 6, 2018. ^ "FAQs about Wi-Fi Calling". sprint.com. ^ "Apple Previews iOS 9". Apple Inc. (Press release). June 8, 2015. Retrieved November 10, 2017. ^ "iPod Touch – Almost none of the new features are available on iPod touch?". MacRumors Forums. June 25, 2015. Retrieved August 6, 2018. ^ "What's New in Cocoa Touch – WWDC 2015 – Videos – Apple Developer". apple.com. August 6, 2018. ^ "Apple to require 6-digit passcodes on newer iPhones, iPads under iOS 9". Ars Technica. June 8, 2015. Retrieved August 6, 2018. ^ "IKEv2 Configuration Profile for Apple iOS 8 and newer". Retrieved August 6, 2018. ^ "iOS 9 now with IKEv2 VPN protocol". June 16, 2015. Retrieved August 6, 2018. ^ AppAdvice Staff Author (June 11, 2015). "Get ready to take flight with a great new feature in iOS 9". AppAdvice. Retrieved August 6, 2018. ^ a b c "The iOS 9 Jailbreak Is Now Available". Lifehacker. Retrieved October 22, 2015. ^ "Apple Apologizes And Updates iOS To Restore iPhones Disabled By Error 53". TechCrunch. Retrieved February 18, 2016. ^ "iOS 9.3 Build 13E237 With Activation Lock Bug Fix Released – Download Now". WCCFTech. March 28, 2016. Retrieved March 28, 2016. ^ a b "Apple releases iOS 9.3 beta 3 with Night Shift, Touch ID Notes, & Verizon Wi-Fi Calling". ^ WebKit (January 11, 2016). "WebKit on Twitter: "The OS X 10.11.4 and iOS 9.3 betas out today contain picture element, CSS variables, font-feature-settings and more!". Twitter. Retrieved January 12, 2016. ^ "Here's the Full Changelog for iOS 9.3". iClarified. Retrieved April 14, 2016. ^ "New Threat Can Auto-Brick Apple Devices". Krebs on Security. Retrieved April 14, 2016. ^ "About the security content of iOS 9.3.4". August 4, 2016. Retrieved August 4, 2016. ^ a b c d e f "The Million Dollar Dissident: NSO Group's iPhone Zero-Days used against a UAE Human Rights Defender". Citizen Lab. August 24, 2016. Retrieved September 13, 2016. ^ a b "Update your iPhone or iPad software to avoid issues with location, date, and time". Apple Support. Retrieved July 22, 2019. ^ a b "About the security content of iOS 10.1". Apple Inc. November 14, 2016. Retrieved November 22, 2016. ^ "News and Updates – Apple Developer". Apple Inc. Retrieved March 27, 2017. ^ "Apple Releases iOS 10.3.1 to Address Wi-Fi Vulnerability". MacRumors. April 3, 2017. ^ "Apple Releases iOS 10.3.2 With Multiple Bug Fixes and Security Updates". MacRumors. May 15, 2017. ^ "Apple Updates IOS and macOS Security Ahead of Black Hat". eWeek. July 20, 2017. Retrieved August 2, 2017. ^ "Broadpwn: Remotely Compromising Android and iOS via a Bug in Broadcom's Wi-Fi Chipsets". July 26, 2017. Retrieved August 2, 2017. ^ Samuel Axon (September 26, 2017). "Apple's iOS 11.0.1 update addresses Exchange email server issue". Ars Technica. ^ "Apple disables Walkie Talkie app due to vulnerability that could allow iPhone eavesdropping". TechCrunch. Retrieved July 25, 2019. ^ "Apple brings Walkie Talkie back to the Apple Watch". The Verge. July 22, 2019. Retrieved July 25, 2019. ^ "Apple Releases iOS 12.4.1 With Jailbreak Vulnerability Fix". www.macrumors.com. Retrieved August 27, 2019. ^ "About the security content of iOS 12.4.2". www.support.apple.com. Retrieved September 26, 2019. ^ "About the security content of iOS 12.4.3". www.support.apple.com. Retrieved April 29, 2020. ^ "About the security content of iOS 12.4.4". www.support.apple.com. Retrieved December 10, 2019. ^ "About the security content of iOS 12.4.7". www.support.apple.com. Retrieved May 26, 2020. ^ a b Miller, Chance (November 5, 2020). "Apple releases iOS 14.2 with new emoji and wallpapers, HomePod Intercom support, more". 9to5Mac. Retrieved November 5, 2020. ^ "About the security content of iOS 12.4.9". www.support.apple.com. Retrieved November 5, 2020. ^ Miller, Chance (December 14, 2020). "Apple releases iOS 14.3 with ProRAW for iPhone 12 Pro, AirPods Max and Fitness+ support, more". 9to5Mac. Retrieved January 5, 2021. ^ Miller, Chance (December 14, 2020). "Apple releases iOS 12.5 for older iPhones with support for COVID-19 exposure notifications". 9to5Mac. Retrieved December 14, 2020. ^ "About the security content of iOS 12.5". Apple support. Retrieved December 14, 2020. ^ Perez, Sarah (June 12, 2019). "NFC gets a lot more powerful in iOS 13". TechCrunch. ^ "iPadOS on the iPad Air 2: Old tablets can still learn new tricks - Missing (and not-missing) features". Ars Technica. September 25, 2019. ^ "iOS 13 Preview – Features". Apple. Retrieved August 18, 2019. ^ "Apple Releases iOS 13.1 With Share ETA, Expanded Audio Sharing, Shortcuts Automations and More". Macrumors. Retrieved September 28, 2019. ^ Juli Clover (October 28, 2019). "New 13.2 Update Bricking Some HomePods [Update Pulled by Apple]". MacRumors. Retrieved October 28, 2019. ^ "About iOS 13 Updates". Apple Support. Retrieved July 22, 2020. ^ "About the Security Content of iOS 13.5.1 and iPadOS 13.5.1". June 1, 2020. Retrieved June 1, 2020. ^ Brandom, Russell (September 1, 2020). "Apple and Google announce new automatic app system to track COVID exposures". The Verge. Retrieved September 6, 2020. ^ Miller, Chance (July 9, 2020). "Apple releasing iOS 14 public beta today with redesigned home screen, widgets, more". 9to5Mac. Retrieved July 9, 2020. ^ "iOS 14 Preview". apple.com. ^ a b "About iOS 14 Updates". October 20, 2020. Retrieved October 20, 2020. ^ Miller, Chance (September 24, 2020). "Apple releases iOS 14.0.1 with bug fixes for widgets, default app settings, more". 9to5Mac. Retrieved September 24, 2020. ^ Clover, Juli (October 22, 2020). "First Impressions From New iPhone 12 and 12 Pro Owners". MacRumors. Retrieved October 23, 2020. ^ Clover, Juli (November 19, 2020). "Apple Releases iOS 14.2.1 With Fix for Text Message Bug and iPhone 12 Mini Lock Screen Issues". MacRumors. Retrieved November 20, 2020. ^ "iOS 14.4 (18D52) - Releases - Apple Developer". Apple Developer. Apple Inc. January 26, 2021. Retrieved January 26, 2021. ^ "iOS 14.4.1 (18D61) - Releases - Apple Developer". Apple Developer. Apple Inc. March 8, 2021. Retrieved March 8, 2021. External links iOS – official site Retrieved from "

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