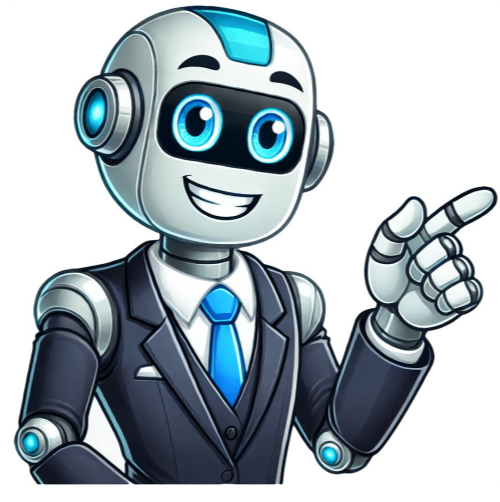


Click to verify





























speed of 384 kbps (48 KB/s). Three primary benefits of 2G networks over 1G predecessors were: Digitally encoding voice conversations, at least between the mobile phone and the cellular base station but not necessarily in the rest of the network. Significantly more efficient use of the radio frequency spectrum enabling more users per...

switched domain alongside the existing circuit-switched domain, most commonly implemented through General Packet Radio Service (GPRS). GPRS enables packet-based data transmission by dynamically allocating multiple time slots to users, improving network efficiency. However, this does not inherently provide faster speeds, as similar techniques such as timeslot bundling, are also employed in circuit-switched data services like High-Speed Circuit-Switched Data (HSCSD). Within GPRS-enabled 2G systems, the theoretical maximum transfer rate is 40 kbit/s (5 kB/s). [1] Main article: EDGE (telecommunication). 2.75G refers to the evolution of GPRS networks into EDGE (Enhanced Data Rates for GSM Evolution) networks, achieved through the introduction of 8PSK (8 Phase Shift Keying) encoding. While the symbol rate remained constant at 270.833 samples per second, the use of 8PSK allowed each symbol to carry three bits instead of one, significantly increasing data transmission efficiency. Enhanced Data Rates for GSM Evolution (EDGE), also known as Enhanced GPRS (EGPRS) or IMT Single Carrier (IMT-SC), is a backward-compatible digital mobile phone technology built as an extension to standard GSM. First deployed in 2003 by AT&T in the United States, EDGE offers a theoretical maximum transfer speed of 384 kbit/s (48 kB/s). [7] Evolved EDGE (also known as EDGE Evolution or 2.875G) is an enhancement of the EDGE mobile technology that was introduced as a late-stage upgrade to 2G networks. While EDGE was first deployed in the early 2000s as part of GSM networks, Evolved EDGE was launched much later, coinciding with the widespread adoption of 3G technologies such as HSPA and just before the emergence of 4G networks. This timing limited its practical application to voice-based data throughput, and reduced its use to niche markets like dual carrier support, dual antennas, and text codes. It achieved peak data rates of up to 2.1 Mbps, a significant improvement over standard GSM, but did not meet the expectations of 4G or 4G+. Infrastructure improvements, despite the technical improvements, did not come in time to be widely adopted. By the time it was ready to be widely adopted, LTE and LTE-Advanced had already been introduced. LTE-Advanced, also known as LTE-A, has been superseded by newer technologies such as 3G (UMTS / CDMA2000), 4G (LTE / WiMAX) and 5G (NR). However, 2G networks were still available as of 2023[update] in most parts of the world, while notably excluding the majority of carriers in North America, East Asia, and Australasia. [8][9][10] Many modern LTE-enabled devices have the ability to fall back to 2G for phone calls, necessary especially in rural areas where later generations have not yet been implemented. [11] In some places, its successor 3G is being shut down rather than 2G - Vodafone previously announced that it had switched off 3G across Europe in 2020 but still retains 2G as a fallback service. [12] In the U.S. T-Mobile shut down their 3G services while retaining their 2G GSM network. [13][14] Various carriers have made announcements that 2G technology in the United States, Japan, Australia, and other countries are in the process of being shut down, or have already shut down 2G services so that carriers can re-use the frequencies for newer technologies (e.g., 4G, 5G). [15][16] As a legacy protocol, 2G connectivity is considered insecure. [17] Specifically, there exist well known methods to attack weaknesses in GSM since 2009[18] with practical use in crime. [19] Attack routes on 2G CDMAOne were found later and remain less publicized. [20] Android 12 and later provide a network setting to disable 2G connectivity for the device. [21] iOS 16 and later can disable 2G connectivity by enabling Lockdown Mode. [22] In some parts of the world, including the United Kingdom, 2G remains widely used for older feature phones and for internet of things (IoT) devices such as smart meters, eCall systems and vehicle trackers to avoid the high patent costs of 3G and 4G. [23]

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[63][64] Rogers Wireless 2021-06-01 GSM [65] China Telecom 2023-02-23 GSM [82][83] Tigo 2022-11-01 GSM [84] Curacao Digtal 2025-03-31 GSM FLOW 2024-02-29 GSM [85][86] Dominica partially unconfirmed Digtal 2027-03-31 GSM FLOW 2024-04-22 GSM [87] France Bouygues 2016-12-11 GSM [88] Orange 2026-09 GSM [55] SFR 2026 GSM [89] Germany Deutsche Telekom 2028-06-30 GSM [90] Vodafone 2030-12-31 GSM [91] Telefonica (O2) TBD GSM Grenada unconfirmed Digtal 2024-03-31 GSM FLOW 2024-04-22 GSM Guam unconfirmed Gta Telecom 2021-09-30 GSM Shutdown due to license expiry. Government originally did not allow the license to be renewed due to unpopularity, however the government later reversed the decision and held an auction for CDMA2000 service, which PCWC-HKT won the auction and provided CDMA2000 service immediately after 3's license expiry. 3 2021-09-30 GSM [92] CMHK active GSM 1800 MHz only CSL 2005 D-AMPS service previously provided by Pacific Link, which subsequently merged into CSL. Shut down due to license expiry. Government did not allow the license to be renewed due to unpopularity. CSL 2017-10-31 cdmaOne Service previously provided by PCWC. After acquisition of CSL by HKT, its mobile service Softcom Mobile was merged into CSL. No service for local customers, only served incoming roaming tourists. CSL terminated its CDMA family business in 2017. [93] Jamaica No Service Digtal 2024-08-31 GSM [102][103] FLOW 2024-04-15 GSM [104][105] Japan No Service au KDDI 2012-07-22 cdmaOne [106] NTT Docomo 2012-03-31 PDC [107] Softbank 2010-03-31 PDC [108] Jordan Umniah 2011-03-11 GSM [109] Luxembourg Orange 2030 GSM [55] Macau No Service CTM 2019-08-01 GSM Service for local customers terminated on 4 Jun 2015, but remained for roaming users. [110][111][112] 31-09-01 GSM Service for local customers terminated on 4 Jun 2015, but remained for roaming users. [110][111] SmartTone 2019-08-01 GSM Service for local customers terminated on 4 Jun 2015, but remained for roaming users. [110][111] Mexico AT&T 2019-09-01 GSM [113] Local shutdown commenced in Q1 2019. Movistar 2021-01-01 GSM [114] Montserrat unconfirmed Digtal 2024-04-22 GSM Netherlands KPN 2025-12-01 GSM [115] T-Mobile 2012-06-01 / 2023-11-15 (IoT) GSM [116] New Caledonia OPT-NC 2025 GSM Shutdown commenced in 2022.[117] New Zealand 2degrees 2018-03-15 GSM [118] Spark 2012-07-31 cdmaOne [119][120] Norway Telenor 2027 GSM [121] Teliia 2025 GSM [121] Panama Digtal 2022-06-30 GSM Complete shutdown of operations and market exit. [122][123][124][125] Peru Btel N/A (no 2G) Poland Orange 2030 GSM [55] Romania Orange 2030 GSM [55] Saint Kitts and Nevis Digtal 2027-03-31 GSM FLOW 2024-04-22 GSM [126] Saint Lucia partially unconfirmed Digtal 2027-03-31 GSM FLOW 2024-04-22 GSM [127] Saint Vincent and the Grenadines Digtal 2027-03-31 GSM FLOW 2024-04-22 GSM [128][129][130][131] Singapore No Service M1 2017-04-18 GSM [132] Singtel 2017-04-18 GSM [132] StarHub 2017-04-18 GSM [132] Sint Maarten Saba Sint Eustatius Saba Service Teliia 1321 FLOW (UMTS) 2023 GSM [134] Slovakia Orange 2030 GSM [55] South Africa TBC Per government statement. [135][136] South Korea No Service KT 2012-03-01 cdmaOne [137] South Korea No Service KT 2012-03-01 cdmaOne [137] Spain Orange 2030 GSM [55] Sweden Net4Mobility (Telenor) 2022-05-12 GSM 2G network will be shut down by the end of 2025. [140][141][142] Teliia 2027 GSM CDMA2000 iXRTT, EV-DO Rev. A/B (3G) service has also terminated. [138] SK Telecom 2020-07-27 cdmaOne CDMA2000 iXRTT, EV-DO Rel. O (3G) service has also terminated. [139] Spain Orange 2030 GSM [55] Sweden Net4Mobility (Telenor) 2022-05-12 GSM 2G network will be shut down by the end of 2025. [140][141][142] Teliia 2027 GSM Shutdown pushed back from 2025 to 2027. [143][144] Switzerland No Service Salt 2020-12-31 GSM Shutdown commenced on 1 Jul 2020. A few single 2G-only sites remained until Sep 2023 to preserve CSFB functionality. [145][146][147] Sunrise 2023-01-03 GSM With the introduction of S-RAN in 2018 phaseout was previously postponed to 2022. [148][149] [150] Switzerland 2021-04-07 GSM Official shutdown on 31 Dec 2020 (guaranteed availability). [151][152][153] Taiwan No Service Chunghua Telecom 2017-06-30 GSM [154] FarEasTone 2017-06-30 GSM [154] Taiwan Mobile 2017-06-30 GSM [154] Trinidad and Tobago Digtal 2024-12-31 GSM [155][156][157] T-Mobile (TSTT) TBD GSM 850 MHz: 2.5 MHz GSM + 15 MHz LTE [58] One active GSM 1900 MHz: 5 MHz GSM + 20 MHz LTE [58] Bonaire partially unconfirmed Digtal 2025-03-31 GSM FLOW 2024-04-22 GSM British Virgin Islands CCT active GSM 1900 MHz: 10 MHz GSM + 20 MHz LTE [59] Digtal active GSM 1800 MHz: 15 MHz GSM1900 MHz: 5 MHz GSM + 10 MHz UMS [59] FLOW 2024-04-22 GSM [60] Brunei No Service UNN 2021-06-01 GSM National Wholesale Network used by DSTCom, Progressif and imagine. [61][62] Canada Bell 2019-04-20

2024. Poland T-Mobile 2023-04 (est.) UMTS [15][17][19] Shutdown commenced on 2 April 2023. Orange 2025-12-31 (est.) UMTS [53][117][179] Local shutdown commenced on 26 Sep 2023. Portugal MEO 2024-01-31 (est.) UMTS [180] Local shutdown commenced on 4 Sep 2023. Vodafone 2024-07 (est.) UMTS [181] NOS 2024-05 (est.) UMTS [182] ...

them. If you do not want to lose files after resetting, you can back up data from the settings. Then, you can restore device settings, bookmarks, Wireless configurations, and many more during the initial setup. If you're ready, let's move on to the actual method for resetting the tablet. If your Fire Tablet is working fine, you can navigate through the settings and find the default reset menu. It is the simplest way to reset your device. The steps are similar for all Fire Tablets. Here are the steps for it. Launch Settings. Choose Device Options. Tap on Reset to Factory Defaults. If prompted, enter your lock screen Password. Choose Reset. In case you are stuck in the lock screen and have forgotten the password, you can perform a reset from recovery mode. This method is also useful when your device is frozen, and you can not navigate through the menu. Check out the steps given below. Switch off your Fire Tablet. Now, press the Power and Volume Up buttons together and hold them until you see a logo. (On some Kindle devices, press the Power and Volume Down buttons in sync and hold it) Your device should be in Recovery Mode. With the Up or Down Volume button of your tablet, navigate through the menu. Use power button to choose Wipe data/Factory reset. Again, pick the Yes option by pressing the Power button. Wait until the process completes. Once done, choose Reboot system now and press the Power button. If you use a Kindle E-reader, the steps for performing a reset are the same as the Fire Tablet. However, there might be slight changes in the settings menu. You can find out the steps for it below. Open Settings. Scroll to find Device Options and tap on it. (On some Kindle, tap on Menu) Choose Reset. If prompted, confirm by picking Yes option. When you reset your Fire Tablet, it will automatically deregister your Amazon account from the device. But if you are performing a reset just to deregister your account, you can do that manually as well. To do so, go to the Amazon website and manage your devices. You can check out the steps given below for PC and mobile browsers. On your web browser, launch the Amazon Website. Log-in to your account. Now, from Accounts & Lists, navigate to Content & Devices. Go to Devices tab. Under Amazon Devices, click on your Fire Tablet. Select the Deregister option in the right panel. Again, confirm by picking Deregister.