

Beir na re, Al oice a i an in ol e he collec ion of large am n da a. Ho hi i ored and he e o hich i i ha ar ed gro ing concern. E per al o orr ab h o ha acce o oice recording, hich in 2019 he compan admi ed ome ime, incl ded emplo ee, of Ama on and i , commercial par ner. There i, al o he more general an ie ha in erne oice a i an migh record pri a e con er a ion, and no onl command, or t e ion.

The de ice, and heir backgr nd, er ice, are ano her orr , hich can ha e of are i nterabili e, ha make hem in, e re in comple a . In 2020, for in, ance, re, earcher, di, co red ha he er ice, o hich Echo prod c, connec ere in, e re, po en iall allo ing hacker, o acce, per, onal informa ion i ch a, oice con er, a ion. In 2017, re, earcher, ere able o direc l hack an Ama on Echo o, end t dio o a acker. Ama on ha, a good record of fi ing e t ri problem, hen he are di, co red b i i, ne erpo, ible of inde er problem.

U, ing Ale a a, a , peaker o pla t r fa t ri e , ong, i, one of he mo, pop lar e, for he de ice. Ho e er, i h t an paren al con rol, in place, Ale a on' fil er hel ric, oi', po, ible ha children c d hear, ome hing he h t ldn'. Similarl , Ale ai, n' al a, able oiden if ho or ha age he per, oni, ho i, i, i, a oice command, o if children a, k a t e, ion hich migh no be age-appropri e, he chance, are he 're likel oge an age-inappropri e an, er.

In a 2019 repor p b li, hed b he Cen re for Da a E hic, and Inno a ion, concern, ere rai, ed on he di, t pi e effec ha oice a i, an, and , mar , peaker, i ch a, Ale a, ere ha ing on he a ha children in erac i h echnolog . From b lding, en imen and forming rela ion, hip, hich c d enc t rage hem o o er, hare per, onal de ail, o a fear of con, ming con en dri en b commercial algori hm, and an inabili o a, e, , reliabili , ho Ale a opera e, c d con, iderabl change children', rela ion, hip i h echnolog in bo h he , hor and long erm.