

Computer hackers can now hijack TOILETS: 'Smart toilet' users in Japan could become victim to Bluetooth bidet attacks and stealthy seat closing

- The Satis toilet, popular in Japan, can be remotely operated by a free app available on Android smartphones with a hardwired Bluetooth code
- IT security firm Trustwave has warned that prankster hackers could use the app to attack toilet users remotely
- The Satis toilet lets people raise and lower the toilet set as well as trigger a bidet function and flush by using a mobile app

By [SARAH GRIFFITHS](#)

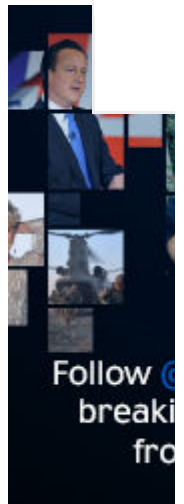
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Hackers can harass users of a smart toilets in Japan by exploiting the power of a free Bluetooth app.

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The advanced 'Satis' automatic toilet can be remotely operated by a free app available on Android smartphones that lets people raise and lower the toilet set as well as trigger a bidet function and flush.

The unlikely Bluetooth security vulnerability warning came from IT security firm Trustwave, which said the high-end Satis toilet can be operated remotely.



The advanced 'Satis' automatic toilet can be remotely operated by a free app available on Android smartphones that lets people raise and lower the toilet set as well as trigger a bidet function and flush

It is not thought that many people are taking advantage of the security glitch or are intent on causing commode chaos across Japan.

The high-end toilet, which has numerous hygienic features including deodorising capabilities, an automatic seat and bidet, is made by Laxil, one of Japan's biggest toilet companies, [The Atlantic](#) reported.

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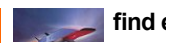


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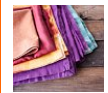
The company says its Satis toilet 'defines toilet innovation' as not only do they host a wide array of features, they can be operated by using a mobile phone - which may or may not be hygienic depending on your perspective.



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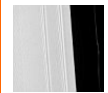
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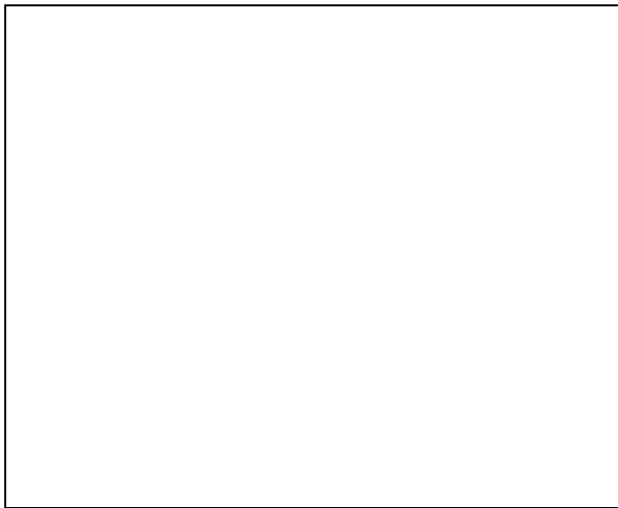
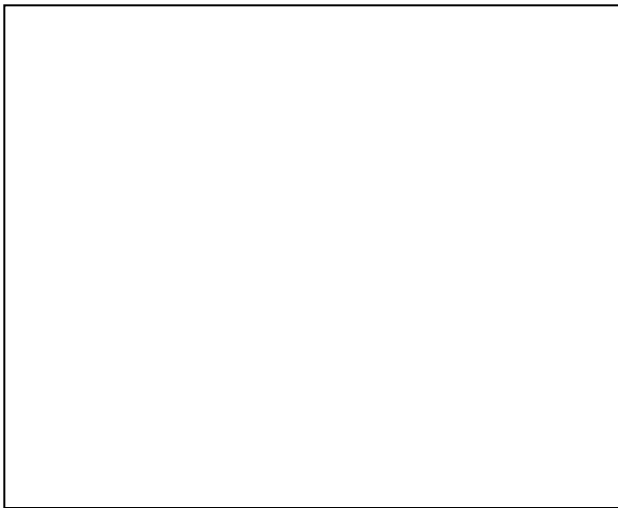
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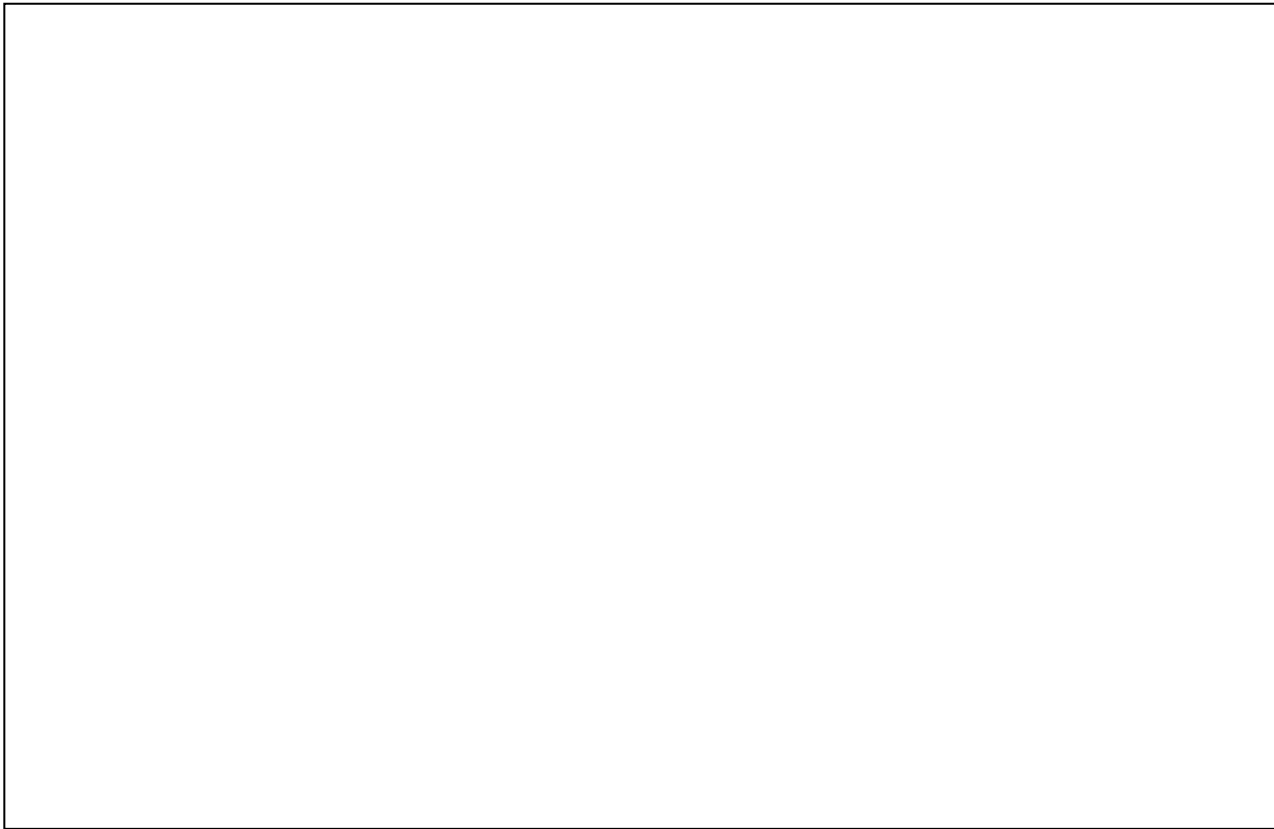


The high-end 'Satis' toilet has numerous hygienic features including deodorising capabilities (pictured right), an automatic seat and bidet (pictured left) and is made by Laxil, one of Japan's biggest toilet companies

By using an Android app called 'My Satis' over a Bluetooth connection, users can raise and lower the lid, operate a bidet function and flush the toilet.

While this might perhaps seem like a good idea, a pin for the Bluetooth app is set at '0000' and can therefore be used by anyone - even remotely.

Trustwave therefore believes that this could leave toilet users open to attacks by mischievous technophiles.



By using an Android app called 'My Satis' over a Bluetooth connection, (an Android-powered phone is pictured) users can raise and lower the lid, operate a bidet function and flush the

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toilet. The pin for the app is fixed at '0000' and can therefore be used by anyone - even remotely

► Faced alleged darkened her

The security firm said: 'As such, any person using the 'My Satis' application can control any Satis toilet.

'An attacker could simply download the 'My Satis' application and use it to cause the toilet to repeatedly flush, raising the water usage and therefore utility cost to its owner

'Attackers could cause the unit to unexpectedly open/close the lid, [or] activate bidet or air-dry functions, causing discomfort or distress to user.'

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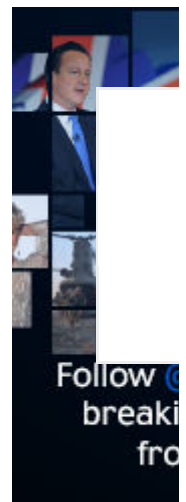


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jumbomumbo, London, 3 years ago

classic, there are some seriously bored nerds out there...

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matty, Glasgow UK, 3 years ago

My god they could close the seat or worse make it flush, aggh!

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paul, devon, United Kingdom, 3 years ago

Security flaws of any kind seem to be a result of SLOPPY programming, surely we need to think about who we hire to write software and make sure those people have a decent level of knowledge. how much would it take to authenticate what device is connecting and via handshaking work out if that device is allowed to connect, if not deny it, er oh yeah its called a firewall or if you use ssh, you can set that up to connect without a password as it puts a key at both ends, and only allows devices with the right key in, surely bluetooth is capable of something similar. If not disable it.

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Student, Leeds, United Kingdom, 3 years ago

What about updates, upgrades, system errors, internet security features, manual override? I really hope it doesn't have a microphone and camera as most internet enabled devices have. Next we'll have the iLoo (TM) which will be better than Windows Toilet and without blue screen. No doubt it will end up with it's own twitter account but at least it will have a good reason for talking crap.

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Katie, Usa, United States, 3 years ago

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LOL! I'd go in a bush before i'd go in a public restroom! Gross!

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Donald Swank, The Isle Of Oh, 3 years ago

Hacking into Bluetooth enabled toilets? I'm a high or something? This worlds gone mad!

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Stewski, Hexthorpe, United Kingdom, 3 years ago

Yes,maybe.But can it write a poem on the wall ?

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gillians, Glendale, United States, 3 years ago

They have one of these in my nail salon in Glendale. It is great. It has a heated seat and two functions for washing at the press of a button - one for the front and one for the back. I could sit on it all day. Very refreshing and clean.

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bushman, inthebundu, United Kingdom, 3 years ago

Whatever next? I would not be surprised at all if they one day figure out a way to hack into our computers, and possibly even our phones as well. Who knows?

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Completely Average, Somewhere, United States, 3 years ago

There is only one thing I can think of after reading that article. W T F ? I'm not sure which I find more stupid, the need for a smart toilet, or that someone would bother hacking it.

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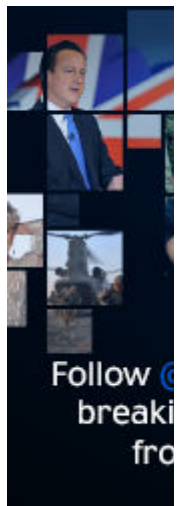
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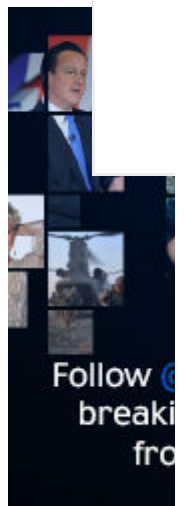
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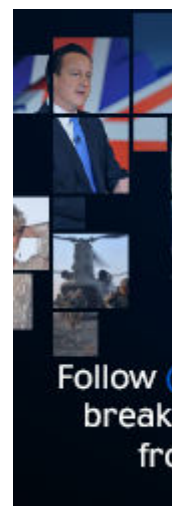
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son Bear on F
Day

► **Fashion for**
Richie honors
decade in Nin
inspired look
Father's Day
Nobu with da

► **Cindy Crawford**
very rare photo
John during h
wedding to R
Gerber
wishes
Father's

► **Fanc**
Alessa
joined
Mazur
Noah 1
in Malibu
Been engaged

► **Back in the**
Beverly Hills
3 star Cara S
flashes stunn
blue dress as
shopping in ol
stomping grou

► **Best suppor**
Sylvester Sta
thanks his da
giving him a 'n
Father's Day'
Toasted the w
life

► **Mel C reveal**
developed an
disorder and
obsessively v
was in the Spi
she opens up
battle with de

▶ They're mar
Grandfather
Josh Peck tie
with longtime
O'Brien in fro
John Stamos
The two tied th

▶ Yin and yang
Cabello stuns
contrasting lo
Much Music V
Awards... and
Best New Inte
Artist

▶ 'I love you to
and back!' Je
pays a touchi
to husband ar
daddy Justin
on Father's D
Heartfelt mess

▶ 'Don't freak
Spelling says
'fun mom' as
bright purple |
before
McDei
Father

▶ No lo
Be Lo
Lipa w
bikini :
smoo
producer Mar
in Miami

▶ Patrick
Schwarzeneg
a bold animal
on shopping t
leggy girlfrien
Champion
Have been da

▶ Nothing say
Father's Day
belfie! April L
shows off her
before beau F
Thicke celebr
a dad with his

▶ Fresh-faced
Tomei, 52, loo
cool in black t
and wildly pri
at New York fi
premiere
Looked simply

► **Jordan Barr**
a tender hand
model Tahnee
Atkinson's ba
shopping in M
he's linked to
Hadid

► **Forgot your**
Jeans? Leggy
Rey reveals a
pink lacy bra
plunging flora
she puts on a
display on gir

► **Our Father's**
Fergie goes s
black top and
jeans as she i
takes son Axl
While her husb
is away in Lon

► **Soccer play**
Prince Boater
sizzling wife M
Satta shows c
flawless
skimp
the be

► **Still c**
Russe
Daniel
new bo
Long c
enjoy a loved
with friends

► **Arnold**
Schwarzeneg
reunites with
Maria Shriver
kids for a Fatl
outing as he t
Patrick

► **'The two mo**
dads!': Ariel V
sweet tribute
for Father's D
her estranged
criticized her

► **Perfect Plac**
closes the Mu
Video Awards
energetic per
after picking i
International
The Year

► Sarah Michele does some la Father's Day in short short posting touch to husband Fr Prinze Jr

► PICTURE E) Bikini-clad De Mawby shows curves in velv swimwear as up the sun at in Ibiza

► 'No better gi Roselyn Sanc Eric Winter ar she's pregnat second baby Announced wi heartwarming

► Barack Oba he is 'most pr Sasha and Ma in heartfelt Fa messa posted the far

► Hello Azalea bodac clingin piece at Much Musi Awards

► 'Daddy day! swimmer Mic Phelps appea shirtless in In photo celebra Father's Day Boomer

► Broke down Hills? Caitlyn climbs into he Bugeye Sprite show... but the push Roadside assi

► Beyonce's f CONFIRMS th her twins as i she and Jay Z and girl... but t in hospital du issues'

► 'This great d
Watts pays tr
partner Liev S
in gushing Ins
post following
split... as he n
with another v

► Back togeth
smiling Rob K
is seen doting
as he celebra
first Father's
on/off girlfrier
Chyna

► 'Who are you
Evans gets ra
interrogating
Cooper in pris
Peaks: The R
Titled 'There's
Right'

► Her Minnie r
Klum is boho-
maxi dress ai
mouse ears a
lookal
13, sp
day at

► Padm
baby c
confir
close
Krishn
Dell with intim
Instagram pho

► For Pete's s
enjoys Father
outing with m
girlfriend Mea
Camper and f
LA
Relaxing day

► Dad's day! J
steps out for l
with husband
Newman and
sons James &
Father's Day
Angeles

► 'She has bee
for motherhoo
while now': M
Robbie 'may I
conceived' du
romantic trip
with husband

► **Zayn Malik s**
his unique sel
style and tatto
collection in u
shirt and ripp
he heads out
York

Has an array c

► **Katy Perry r**
top of Billboa
again as new
Witness debu
number one i

The singer cel
another succe

► **SPOILER AL**
Daniel Salaza
forgiveness a
rampage in M
Fear The Wall

He emerges a
murdering ma

► **'Feminism n**
a women sho
celebrate EVE
her': Courtne
goes c
NAKE
provoc
very r

► **I'm a**
says J
Tennis
remar
gender pay g
game

► **'Thank you f**
such a good c
babies!': Kim
Kardashian s
sweet posts f
Kanye West c
Day

Tribute to the c

► **'I love this w**
Jennifer Huds
over Kelly Ro
she bursts int
show to surpr

To promote he
single, Remer

► **'I got the pity**
Detour's Nata
jokes she wa
Most Beautif
because peop
sorry for her
break

► **Waiting For (Date)night! J Lopez flaunts frame in a sul bodycon co-o steps out on t beau Alex Ro**

► **Mary Poppir and Oliver nai among 50 filrn must watch b of 11**
The list was cr film education

► **They're livin Michael Fassl Alicia Vikande sharing a Lon after dating fc years**
Home sweet h

► **Trump, Mela Barron arrive the White Hou spending just at Can**
The pr of the i

► **'He's Misch 'are w Austr model Abercrombie intentions'**

► **Caitlyn Jenr facing criticis time joke say 'liberals can't shoot straight of Republican practice shoo**

► **Foot-poppin Courtney Sto receives a sn a mystery ma LA's The Lauq**
She's been se since January

► **'Happy Fath Caitlyn Jenne Olympic star holiday with K Kylie and new Kim, Kourtne Khloe are abs**

► Kelly Ripa k
Father's Day
with rare ima
dad as Amy S
shares hilaric
while Pamela
is with Tommy

► Putting the p
metal! Cars 3
past Wonder
skid into top s
weekend box
\$53.3 million

► Olivia Munn
Curry and his
during dinner
Malibu after N
victory... com
month after A
Rodgers split

► 'Haven't bee
2017': Kanye
Wiz Khalifa's
Rose posts ra
photos
she's
p****

► Princ
picture
Charles
in ado
image
Kensington P

► Victoria's Se
sizzlers hit La
Laisa Ribeiro,
Tookes and Jo
Chew pair sw
with Daisy Du
at pool party

► Vacation tim
Angelina Jolie
with all six kic
before Father
while dad Bra
spruces up th
family home
At LAX

► Busty Victor
Silvstedt, 42,
racing in peril
plunging red t
she shows of
enviable figur
relaxing day c

► Makeup-free
Bundchen str
with one of he
sisters before
husband Tom
Happy Father
The 36-year-o

► Victoria Sec
model Joseph
Skriver and b
Alexander De
matching blac
motorcycle ja
they hold han

► 'Thank you f
my tears awa
Grande thank
emotional me
it's revealed s
become an ho
citizen of Man

► Cindy Crawl
Presley Gerbi
enjoys low-ke
model Cayley
after v
at Dol
Milan f

► Snub
wishes
Rober
well as
even S
Father's Day..
Caitlyn

► Laura Hadd
in a baby pink
gets a kiss fro
Sam Claflin a
stars at prem
Transformers
Knight

► Wonder Wor
makeup-free!
shares fresh-
image on Inst
she reveals s
all night with c
On Instagram

► It's a girl! W
Dead star Chi
Serratos reve
had a daughte
boyfriend Dav
sharing photo
child in pink
Sweet snap

► **Go long! Toni**
tosses a footl
Great Wall Of
during bondin
with son Jack
The 39-year-o
superstar and

FROM TH MAKERS CANDY C

Farm Heroes
Game on iTun
now!

GADGET |

► **Is this the ul**
party speaker
MailOnline pu
XB40 to the te
Sony S
built-in
line lig
and a
feature
battery
be a 'n
move'.
to the c

► **Samsung's**
A hefty price
dumb person
assistant
Samsung's ne
S8 phone is st
its \$100 price
to swallow. Ov
is for those wh
elegance - and
willing to pay f

► **Affordable, i**
surprisingly r
Samsung's G
With the eage
Galaxy S8 hav
pushed back,
Korea-based S
has plugged th
the Samsung
a high-end de
mid-range pric

Is it really wor
£280 for Ninte
Switch? MailC
verdict

► While the device is impressive and useful, the game is disappointing.



► **Google's Daydream View: The \$79 headset could bring VR to the masses**

Google's \$79 Daydream View is superb in terms of hardware - but it currently lets down with a lack of apps. It has absolutely potential to bring VR to the masses.

► **Welcome Hello: Google's \$130 smart speaker**

Google's smart speaker, the Home Mini, is a learning experience. It's out to prove that some of the most incredible things in the world are the simplest.

► **'Not a replacement': Pixel phone**

Google's Pixel phone is good, and boasts an amazing camera. But its smart assistant, Google Assistant, is king of the Android world - but not the best of the handsets - but it's great.

► **Xbox One S: Console that's your 4K TV's best friend**

Microsoft's Xbox One S has shrunk the console by 40% and is a stunningly designed console with 4K capabilities - but it's not without some caveats.

► **The \$1,000 smart speaker that's worth the price: Mu-so Qb review**

Naim's incredible Mu-so Qb takes you back to the good old days of the music capital, rather than simply being stuck in the background.

► **The hi-tech bike that really change your life**

Peloton's hi-tech bike lets you stream live classes, demand rides home - and it's one of the best examples of smart technology on the market at a price.

► **Apple's new iPad Pro is a powerhouse you can take anywhere**

Apple has added some improvements to its smaller version of the iPad Pro, a tablet that is astonishingly powerful. But, unlike its predecessor, it is something you can actually carry everywhere.

► **Speaker that sounds as good as its sci-fi look: B&W Zeppelin review**

It's not cheap, at \$699 (£500), but the B&W Zeppelin wireless speaker is a design fan's dream.

► **The best wireless speaker ever heard of: Naim review**

It might not be as familiar to the masses as the Naim brand, but Naim is a British brand that has made a splash in the American market. At \$1499, it's a bit pricey, but the Naim Mu:So is a wireless speaker that's worth the investment.



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