

Messenger Bug Hunting

A bug's end-to-end lifecycle

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Agenda

- Intro to Meta's Bug Bounty Program
- Overview of Facebook Messenger and it's features
- Spoofing Threads - URL Validation Bug
- AR Effects - Crashing Group Calls
- Malforming Mentions and WordEffects
- Conclusion / Sign up bonus (EkoParty exclusive)

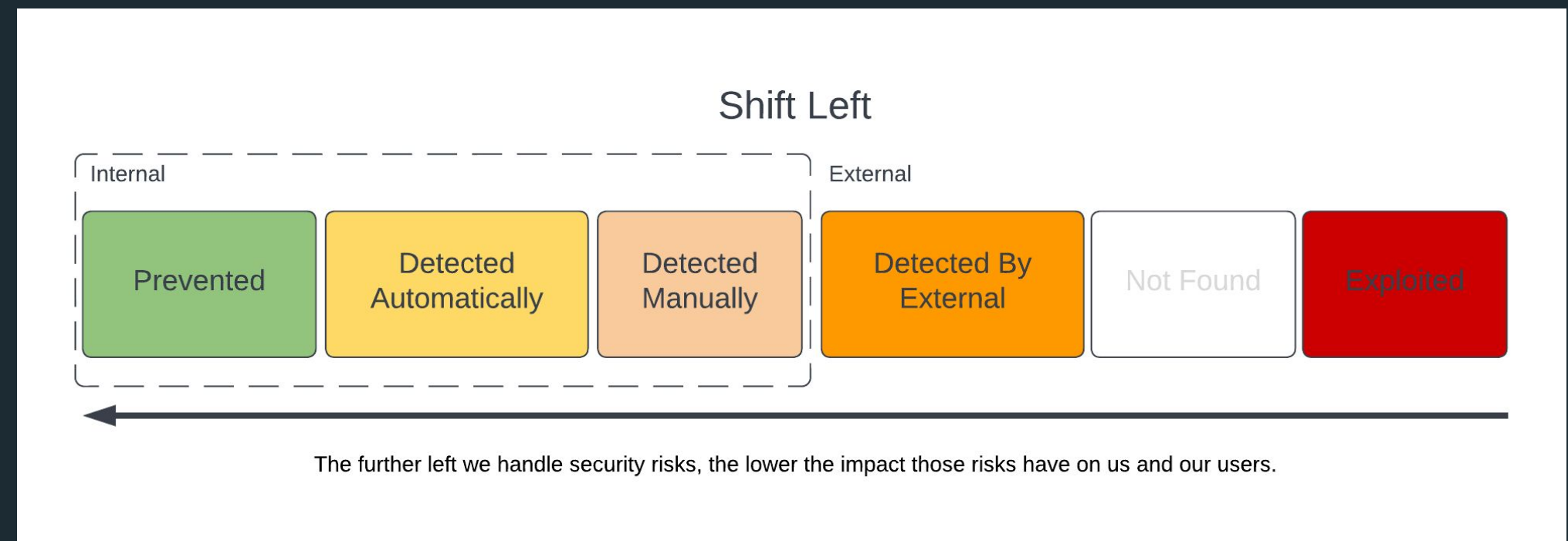
00 Intro to Meta's Bug Bounty Program

Overview

What's VRP

A vulnerability report program (commonly known as Bug Bounty) is a detection method for vulnerabilities in a responsible manner.

- External security researchers hunt for vulnerabilities we missed
- Any external individual can participate
- Influences security efforts across the organization
- Last line of defense



Key facts & figures

- 13 years old
 - since 2011, Meta has paid out more than \$16 million in bug bounties.
- Covers Meta's entire external attack surface
- Since 2011, Meta has received more than 170,000 reports
 - more than 8,500 were awarded a bounty.
- Sets direction for various internal security efforts
- Yearly we receive ~10k reports

Bug Bounty Rewards

- All listed amounts are without bonuses. With HackerPlus, and payout time bonus, you can earn up to 30% of the original bounty amount on top of it!
- We pay based on maximum impact found internally, and our highest payouts reflect that.

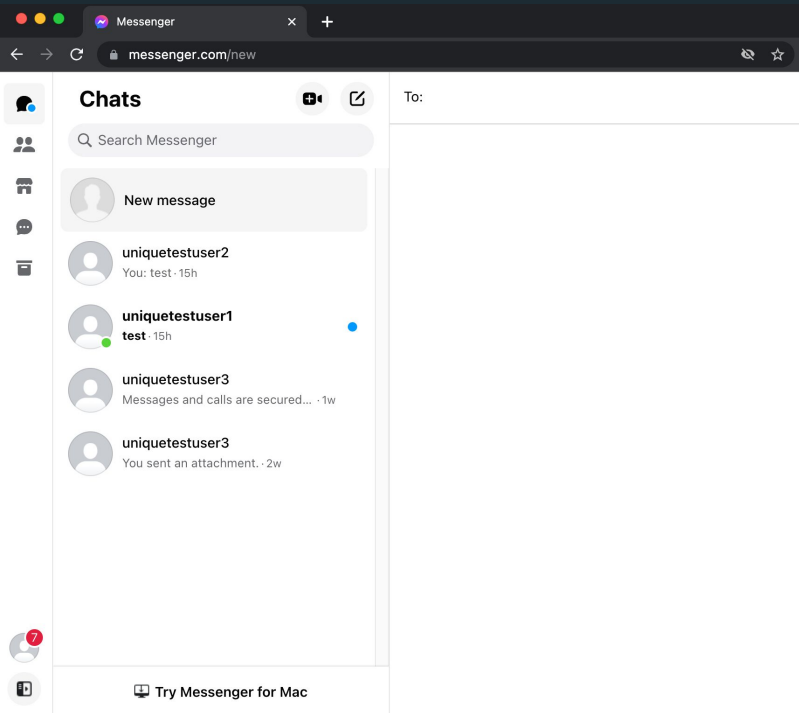
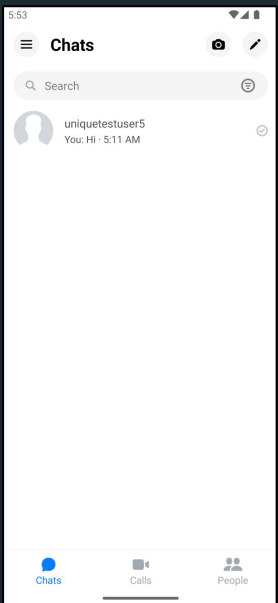
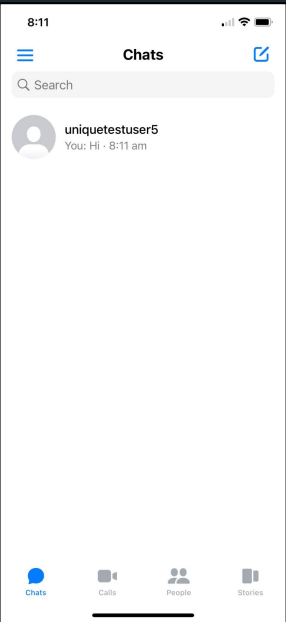
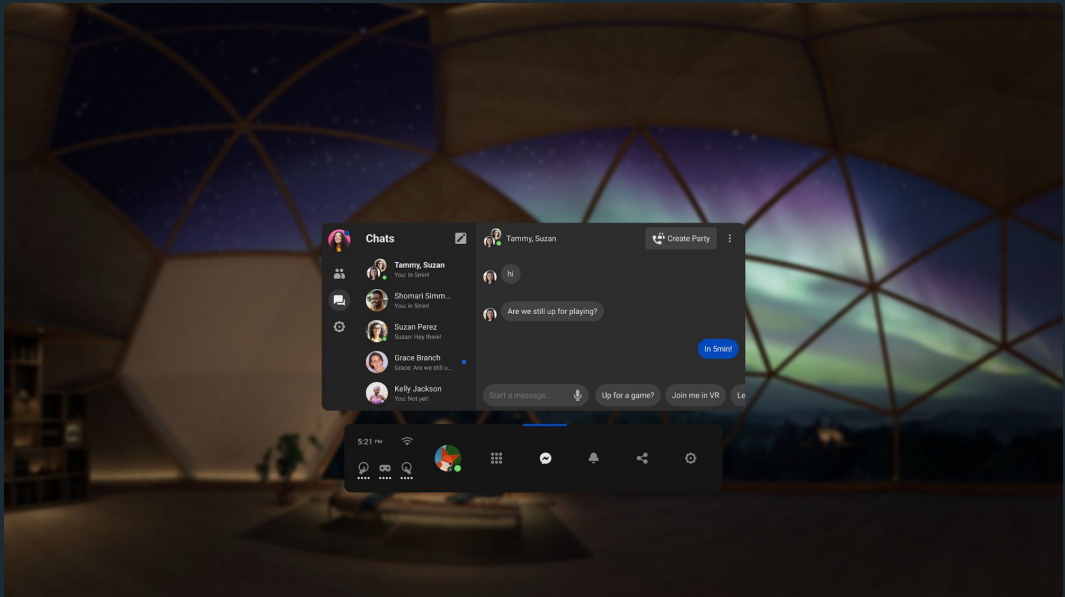
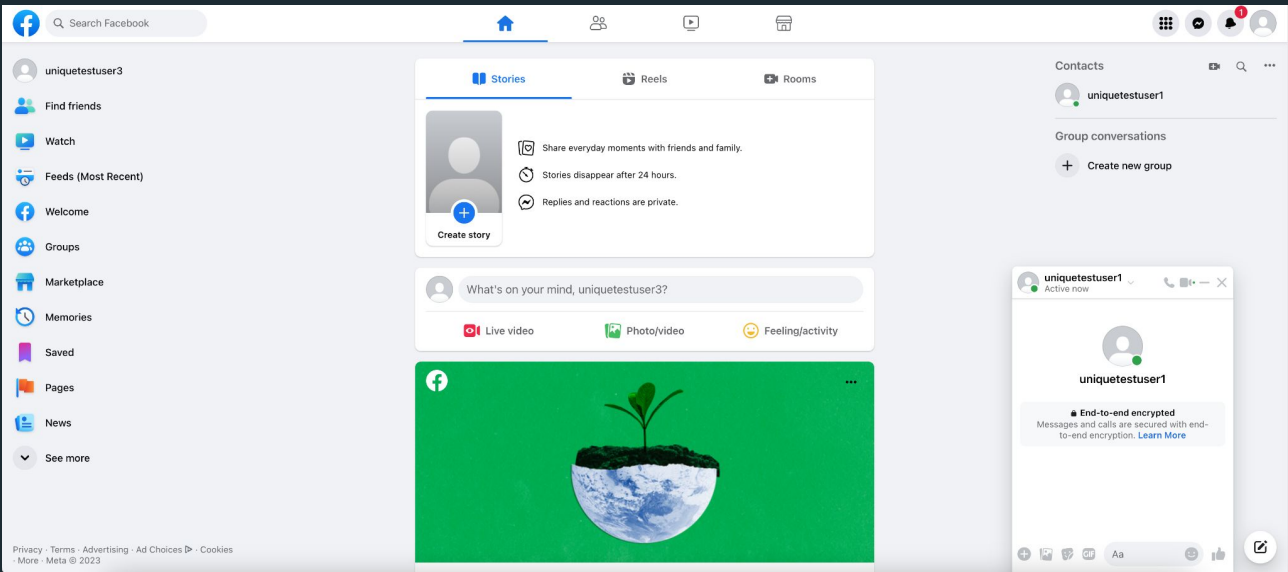
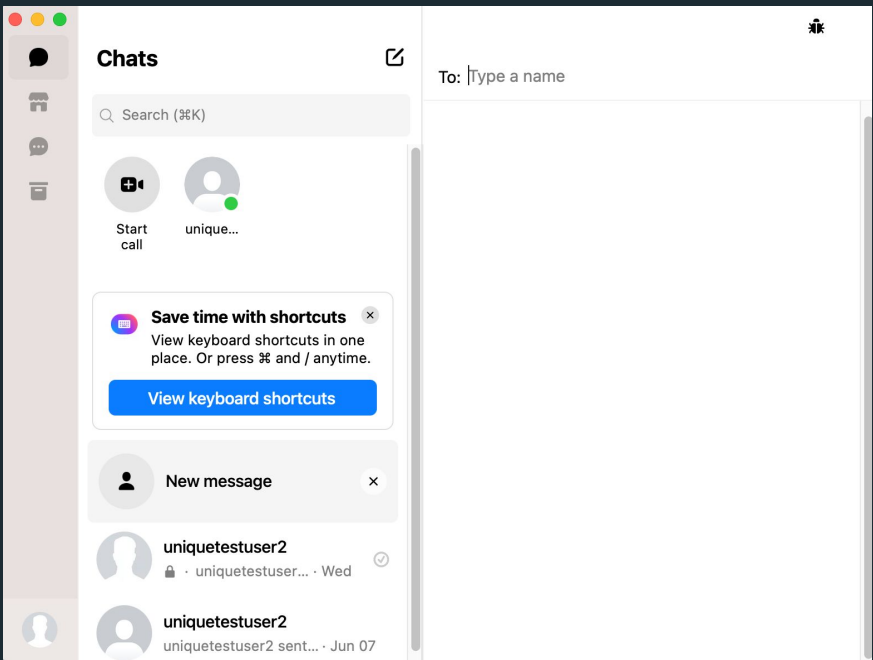


- Latest stats available at <https://bugbounty.meta.com>

01 Intro to Messenger

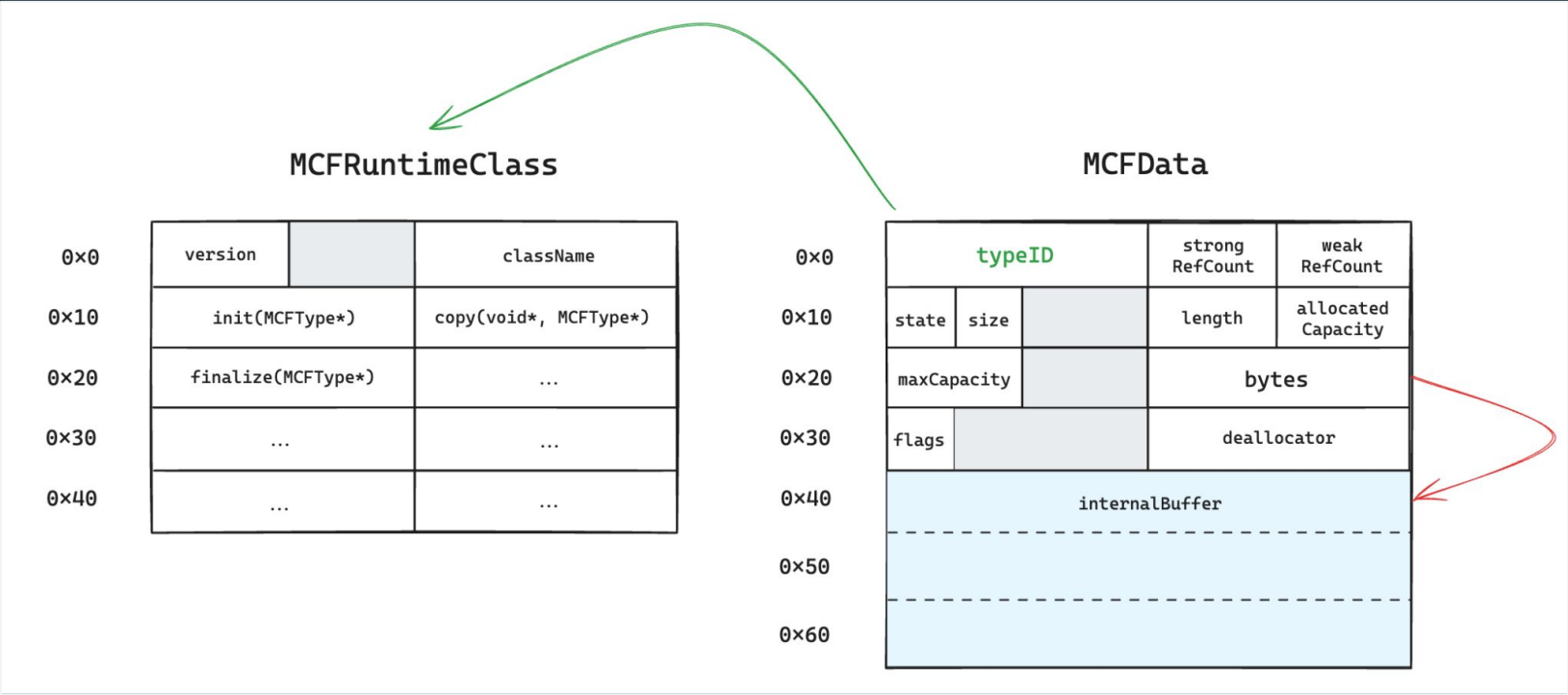
01 Intro to Messenger

What is Messenger?



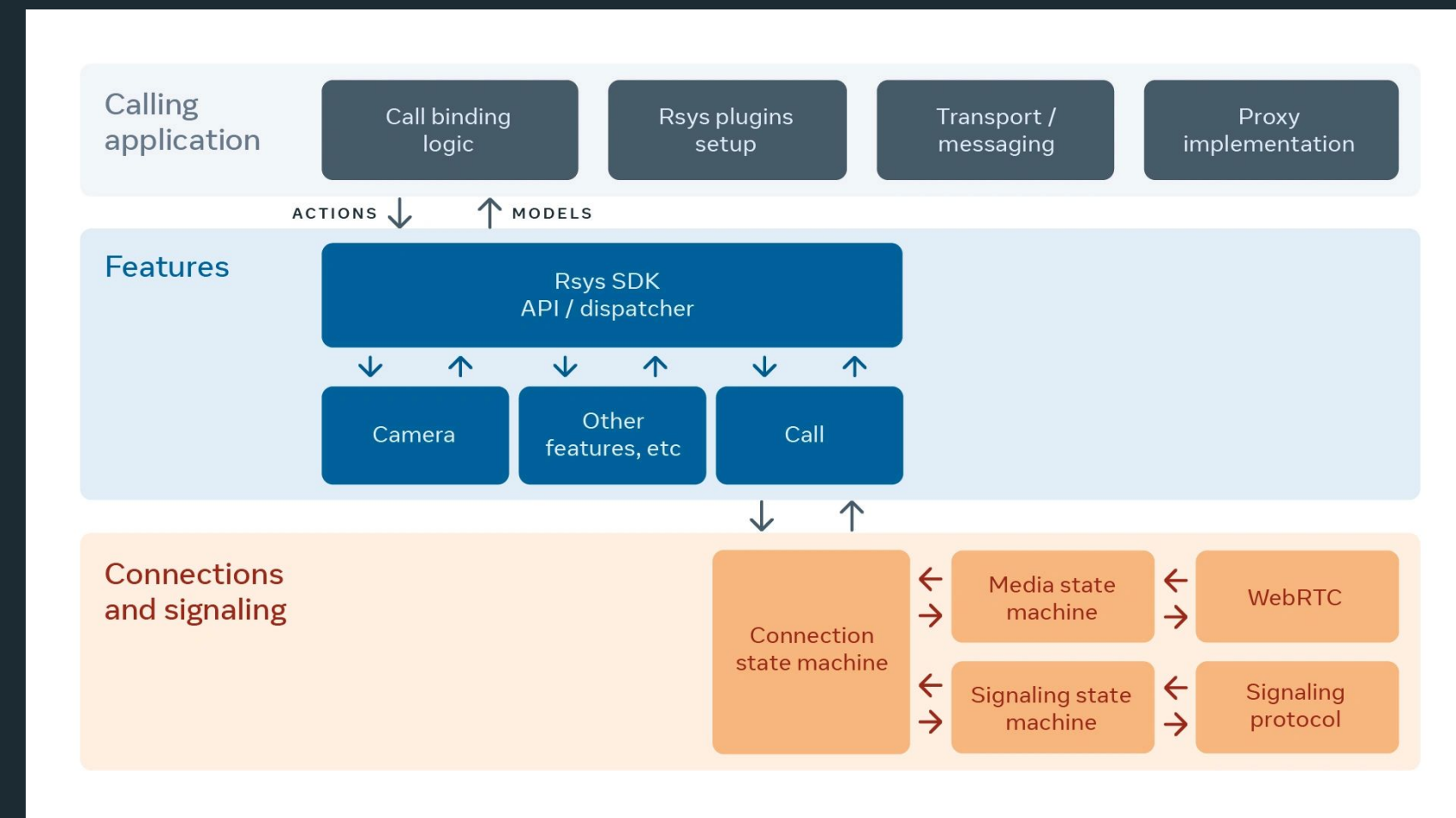
Messenger Messaging Architecture

- **Msys**
 - Cross platform messaging stack written in C
 - Manages database, accounts, incoming/outgoing messaging, etc.
 - E2EE messaging support requiring client side validation of messaging and media content
- **Messenger Core Foundations (MCF)**
 - Manages objects within Messenger
 - Core types used by Msys applications
 - Objects inherit from a base class, are reference counted, and encode type specific functionality such as initializers and destructors



Messenger Calling Architecture

- **Primarily managed by the Rsys and WebRTC libraries**
 - Supports both 1:1 and group audio/video calls
 - Rsys manages client side signaling and WebRTC
 - WebRTC maintains connections to servers/clients and manages media
- **Two relevant attack vectors to consider**
 - **Call Signaling**
 - Communication between clients, infrastructure, and other clients to manage call state
 - **Call Media**
 - WebRTC relevant protocols (e.g. RTP, STUN, SCTP) and audio/video codecs (e.g. OPUS, H264)



Messenger Bugs - Whys & Hows

- Why Messenger?
 - Large attack surface within calling and messaging functionality
 - Extended Content Messages, AR Effects in Group Calls, Mentions & WordEffects
 - E2EE by default - lots of remotely accessible client side validation
- How?
 - I personally focus on Android using Frida/JADX/Ghidra/AFL++
- These bugs I picked were a few that spanned impact levels and discovery methods

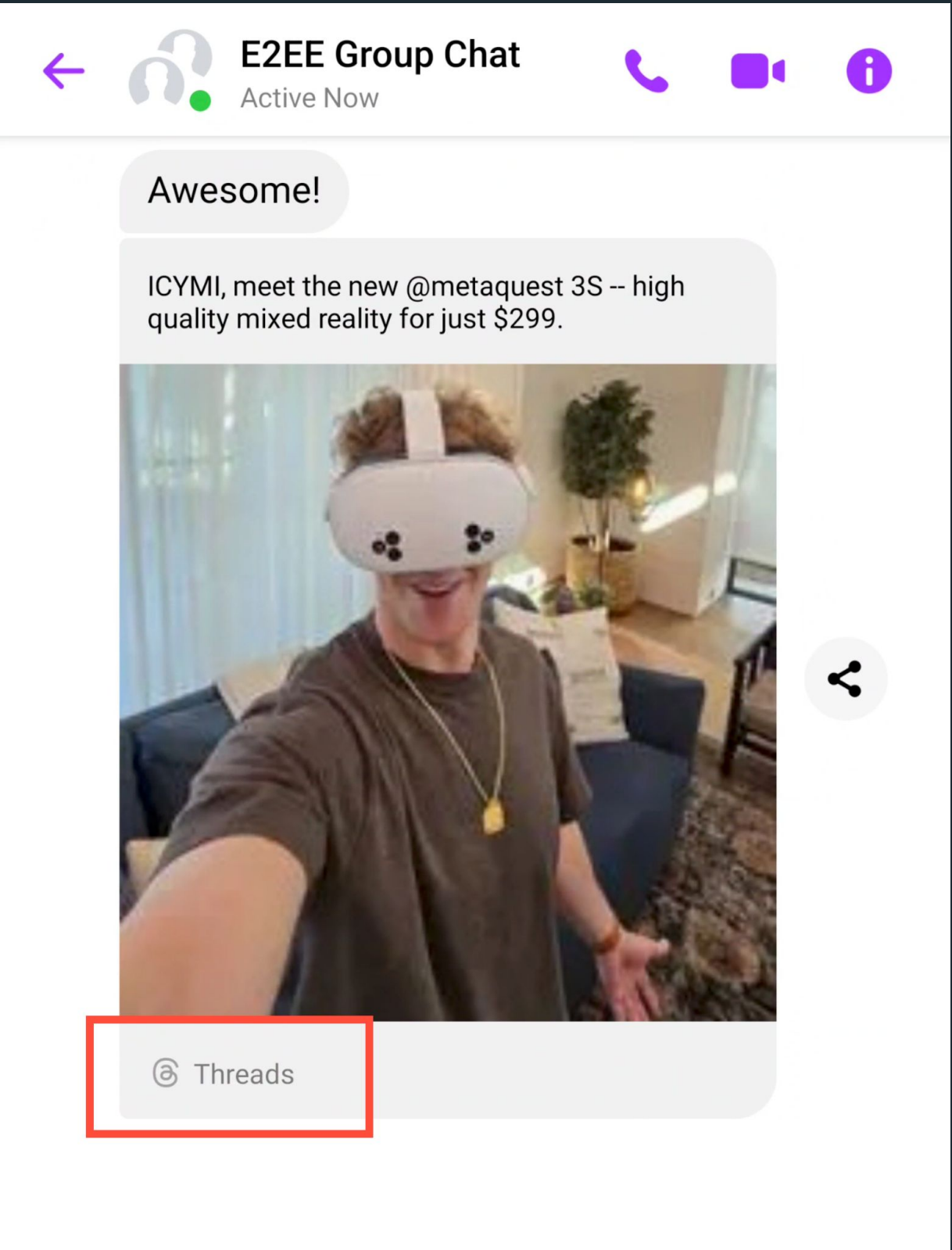
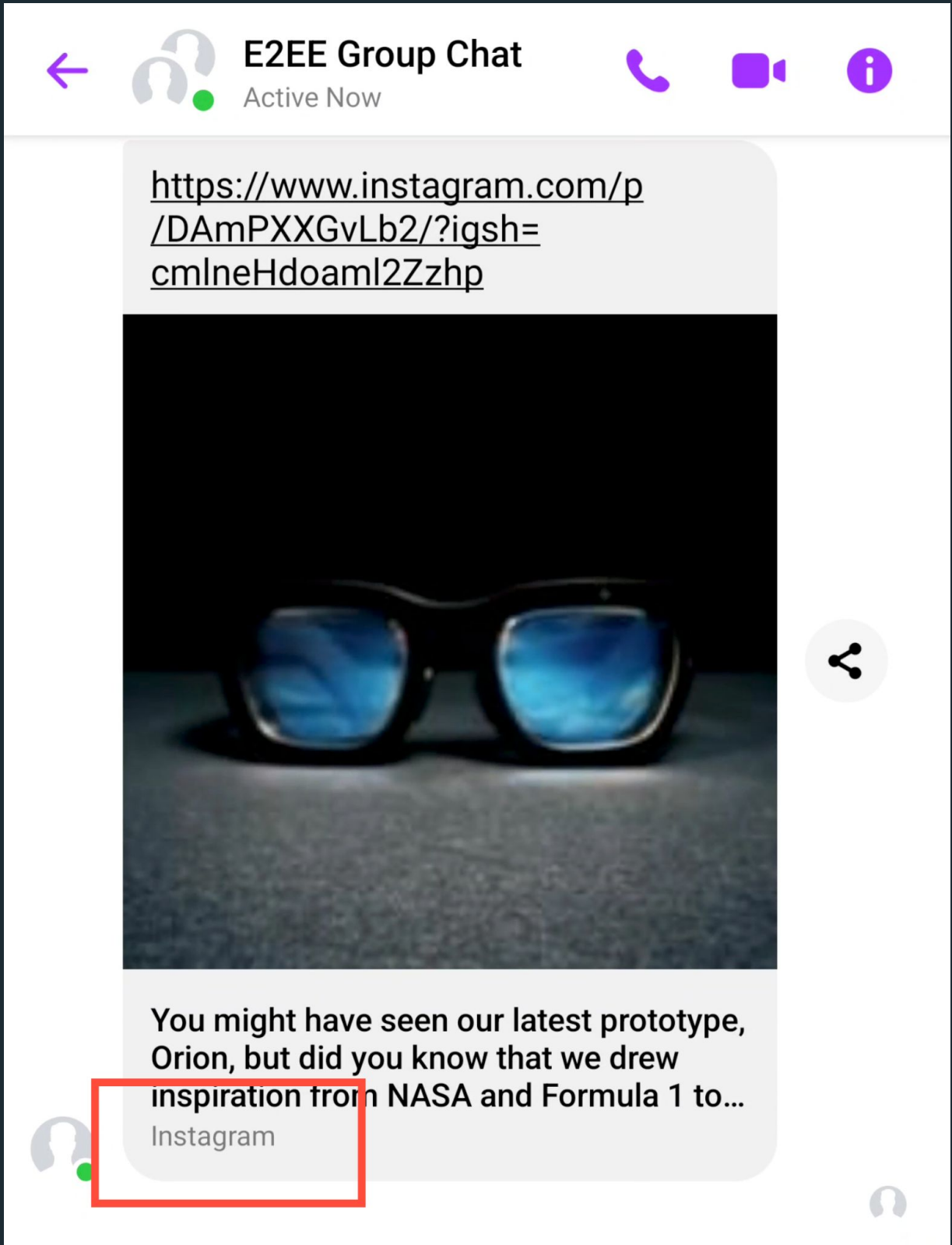
02 Threads Phishing - URL Validation Bug



Threads - Sharing via Messenger

- Threads is a text-based app from Instagram for sharing updates and joining public conversations.
- It aims to connect with decentralized social networks, allowing cross-platform interactions.
- Messenger supports sharing Threads in **branded** messages to facilitate sharing within the Meta ecosystem
- Represented in chats via an **Extended Content Message**

Example Branded Messages



How is branding applied?

- In an E2EE chat the client must make the determination on applying branding
- Client checks the message URL to determine whether to apply branding

```
/** Not the real code but a psuedo representation. **  
function addThreadsBranding(msgUrl) {  
    var msgHost = msgURL.getHost();  
    const threadsdomain = "www.threads.net";  
  
    var occurrenceIndex = msgHost.indexOf(threadsdomain);  
    if (occurrenceIndex >= 0) {  
        return true;  
    }  
    return false;  
}
```

Bug - Improper URL Validation

- Sub-domain of 'www.threads.net' will validate as if it were Threads
 - i.e '<https://www.threads.net.malicious.com>' will be branded as Threads
- Googled "site:threads.net.*" to find sites with matching sub-domains:
 - Found: threads.net.nz, threads.net.ru, threads.net.ng, threads.net.ar
 - All of which, if sent, were branded as Threads in E2EE chats in Messenger
 - ***All but the threads.net.nz domain (a legitimate clothing store) have since been decommissioned after the bug fix...***

Demo

- XMASenderCopyOptions.defaultCta contains URL
 - First Threads message redirects properly
 - Second Threads message redirects to non-Threads domain.

```
package com.facebook.sdk.mca;

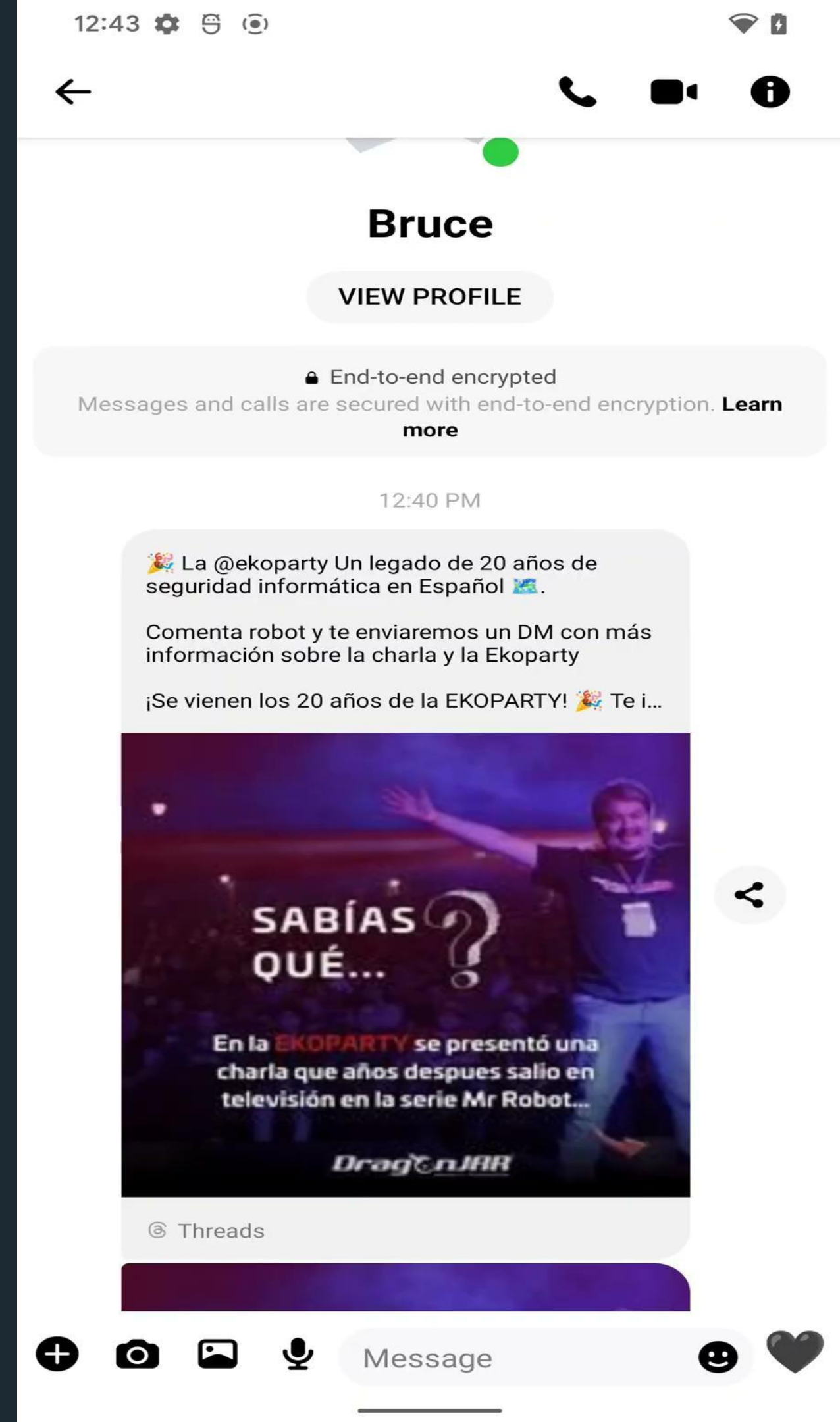
/* loaded from: classes5.dex */
public class MailboxSDK$XMASenderCopyOptions {
    public String collapsibleId;
    public String cta1ActionContentBlob;

    . . .

    public String defaultCta;
    public String defaultCtaTitle;
    public String headerAttributionContentToken;
    public Number headerAttributionHeight;

    . . .

    public String titleText;
    public String xmaDataClass;
}
```



Bug Bounty team's response

RCA & Fix

```
//Threads Prefix
```

```
MCF_STATIC_CONST_STRING(kThreadsCtaPrefix, "https://threads.net/");
```

```
MCF_STATIC_CONST_STRING(kThreadsWWCtaPrefix, "https://www.threads.net/");
```

```
...
```

```
case ACTArmadilloAppExtendedContentTypeMsgThreadsPostShare:
```

```
    return _isValidUrlAndHasSamePrefix(url, kThreadsCtaPrefix, authDataContext)
```

```
        || _isValidUrlAndHasSamePrefix(url, kThreadsWWCtaPrefix, authDataContext)
```

```
...
```

Bug Bounty team's response

Payout Decision

Base payout = \$1000

Gold HackerPlus bonus 10% = \$100

03 AR Effects - Disrupting Group Calls

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03 AR Effects - Disrupting Group Calls

Meta Spark is shutting down

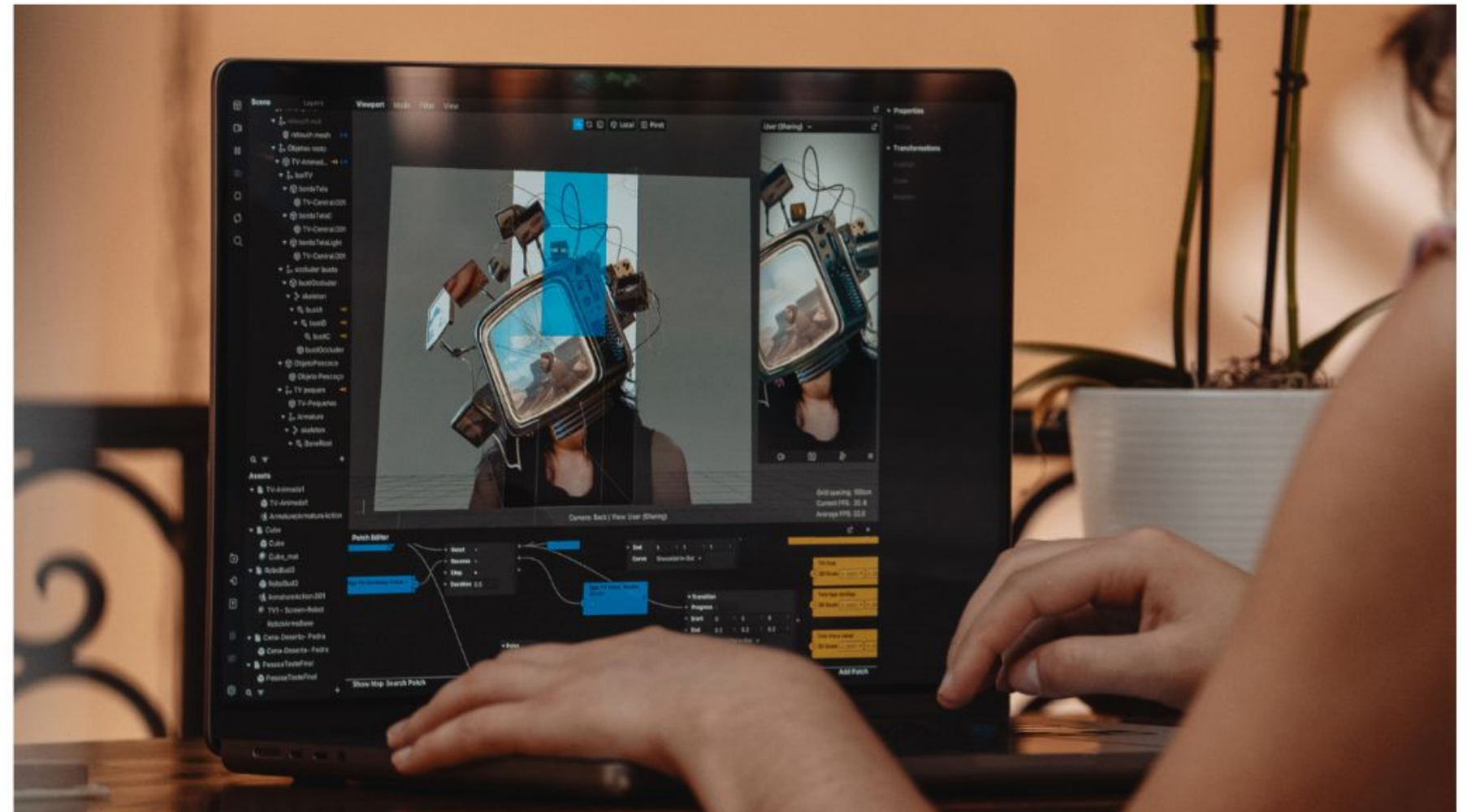
In case you missed it, Meta Spark's platform of third party tools and content will no longer be available effective January 14, 2025. [Learn more](#)

Announcement

Meta Spark is going away

Meta Spark's platform of third party tools and content will no longer be available effective January 14, 2025.

[Learn more](#)



Group Calls & AR Effects

- Messenger chats allow you to apply augmented reality (AR) effects to your calls
- Also available within E2EE Calls - though the ID of the AR effect is revealed to Meta
- Within E2EE calls the AR Effect is sent as an encrypted binary payload encoding:
 - The icon URL, name of user, name of the effect, and the effect ID



Ava started the Lunar New Year effect.

AR Effect Binary Payload

[+] Found liborcarsysjniLatest.so base addr 0x7b00207000																	
[+] Found AR effect serialized payload																	
[!] Sending payload																	
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	0123456789ABCDEF
b400007d223aeec0	38	32	5c	ad	7b	00	00	00	01	00	00	00	01	00	00	00	82\.{.....
b400007d223aeed0	01	00	b5	01	00	00	00	00	75	01	00	00	75	01	00	00	u...u...
b400007d223aeef0	75	01	00	00	00	00	00	00	00	ef	3a	22	7d	00	00	b4	u.....:"}...
b400007d223aeef0	00	01	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
b400007d223aeef00	16	96	e0	d4	81	b6	88	8f	01	18	0e	4c	75	6e	61	72	Lunar
b400007d223aeef10	20	4e	65	77	20	59	65	61	72	18	bf	02	68	74	74	70	New Year...http
b400007d223aeef20	73	3a	2f	2f	73	63	6f	6e	74	65	6e	74	2e	78	78	2e	s://scontent.xx.
b400007d223aeef30	66	62	63	64	6e	2e	6e	65	74	2f	76	2f	74	33	39	2e	fbcdn.net/v/t39.
b400007d223aeef40	31	30	32	36	30	2d	36	2f	32	37	31	31	36	35	36	33	10260-6/27116563
b400007d223aeef50	37	5f	32	39	36	34	39	35	35	37	38	37	30	38	37	38	7_29649557870878
b400007d223aeef60	39	36	5f	31	35	33	30	34	33	38	39	36	39	33	39	35	96_1530438969395
b400007d223aeef70	34	33	33	36	36	35	5f	6e	2e	70	6e	67	3f	73	74	70	433665_n.png?stp
b400007d223aeef80	3d	64	73	74	2d	70	6e	67	5f	70	32	34	30	78	32	34	=dst-png_p240x24
b400007d223aeef90	30	26	5f	6e	63	5f	63	61	74	3d	31	26	63	63	62	3d	0&_nc_cat=1&ccb=
b400007d223aeefa0	31	2d	37	26	5f	6e	63	5f	73	69	64	3d	64	31	31	64	1-7&_nc_sid=d11d
b400007d223aeefb0	62	63	26	5f	6e	63	5f	6f	68	63	3d	57	45	32	41	6f	bc&_nc_ohc=WE2Ao
b400007d223aeefc0	2d	31	78	56	54	38	51	37	6b	4e	76	67	46	71	37	76	-1xVT8Q7kNvgFq7v
b400007d223aeefd0	5a	61	26	5f	6e	63	5f	61	64	3d	7a	2d	6d	26	5f	6e	Za&_nc_ad=z-m&_n
b400007d223aeefe0	63	5f	63	69	64	3d	30	26	5f	6e	63	5f	68	74	3d	73	c_cid=0&_nc_ht=s
b400007d223aefff0	63	6f	6e	74	65	6e	74	2e	78	78	26	5f	6e	63	5f	67	content.xx&_nc_g
b400007d223af000	69	64	3d	41	6b	37	5a	45	49	69	6c	5a	66	53	6f	4a	id=Ak7ZEIilZfSoJ
b400007d223af010	36	42	6f	79	5a	6e	4e	54	51	4f	26	6f	68	3d	30	30	6BoyZnNTQ0&oh=00
b400007d223af020	5f	41	59	44	50	75	79	54	52	51	70	6e	6e	79	61	71	_AYDPuyTRQpnnyaq
b400007d223af030	6a	47	38	71	5f	58	58	62	42	54	36	34	6e	4d	41	6a	jG8q_XXbBT64nMAj
b400007d223af040	5a	71	53	6d	47	78	57	6c	71	7a	78	72	52	41	41	26	ZqSmGxWlqzxrRAA&
b400007d223af050	6f	65	3d	36	37	30	32	38	34	45	42	18	0e	36	31	35	oe=670284EB..615
b400007d223af060	36	33	35	35	36	38	31	36	34	32	35	18	05	4a	61	6d	63556816425..Jam
b400007d223af070	65	73	25	00	00	00	00	00	00	00	00	00	00	00	00	00	es%.....

AR Effect Name

AR Effect URL

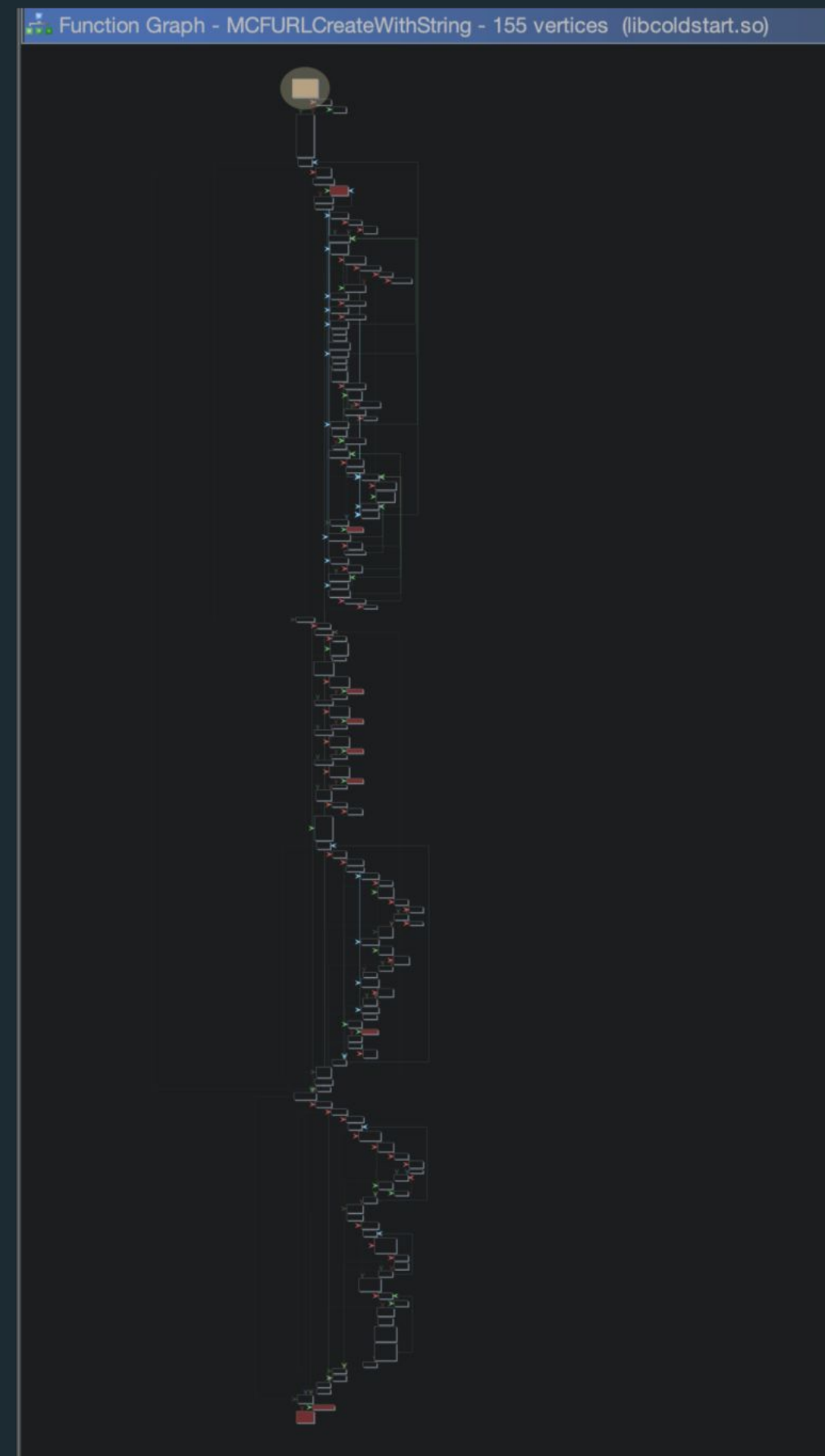
AR Effect ID
User Name

Validating AR Effect Icon URLs

- AR Effect Icons are required to be hosted at <https://scontent.xx.fbcdn.net/>
- Messenger does not want one of these E2EE Icon URLs to outside content hosts
 - Potential for malicious redirects to leak information etc.
- URLs are validated by the native library `liborcarsysjniLatest.so`
 - Rsys native library for managing calls

URL Validation Code

```
Decompile: FUN_0074e4d4 - (orcalatest.so)
1
2 bool FUN_0074e4d4(char *url)
3
4 {
5     undefined in_ZR;
6     bool bVar1;
7     int iVar2;
8     long lVar3;
9     undefined auStack_d0 [128];
10    char *local_50;
11    undefined8 local_48;
12    undefined8 uStack_40;
13    undefined8 local_38;
14
15    lVar3 = tpidr_el0;
16    local_38 = *(undefined8 *) (lVar3 + 0x28);
17    DAT_008e6f9b = 0;
18    lVar3 = MCFURLCreateWithCString(url);
19    if (lVar3 == 0) {
20        bVar1 = false;
21    }
22    else {
23        lVar3 = MCFURLCopyComponent(lVar3,8);
24        if (lVar3 == 0) {
25            bVar1 = false;
26        }
27        else {
28            FUN_003a7688(auStack_d0,lVar3);
29            iVar2 = strcmp(local_50,"scontent.xx.fbcdn.net");
30            bVar1 = iVar2 == 0;
31            in_ZR = bVar1;
32            MCFStringDeallocateCharArray(local_48,uStack_40);
33        }
34        FUN_00871100();
35    }
36    FUN_00871138();
37    FUN_00870798();
38    if ((bool)in_ZR) {
39        return bVar1;
40    }
41    /* WARNING: Subroutine does not return */
42    __stack_chk_fail();
43 }
44
```



Validating AR Effect Icon URLs

- Complex URL parsing native code seems very interesting for fuzzing
 - Large amount of complexity hidden within `MCFURLCreateWithCString(...)`
 - Wrote a `AFL++` harness to fuzz - (un)fortunately code seems memory safe
- What about fuzzing the logic itself? Find a valid/invalid URL
 - Reminder that we can use fuzzers to find non-memory corruption bugs

Fuzzing URL Validation

```
void fuzz_one_input(char* filename, checkURI_t checkUri){
    char uri[MAX_SIZE];
    printf("[*] Opening file %s\n", filename);

    FILE *f = fopen(filename, mode: "r");
    fgets(uri, MAX_SIZE, f);
    printf("[*] Checking %s for safety\n", uri);

    int safeUri = checkUri(uri);
    if(safeUri){
        printf("[+] liborcarsysjniLatest.so reports %s as safe\n", uri);
        if(strncmp(s1: uri,s2: "https://scontent.xx.fbcdn.net/",n: 30) != 0){
            printf("[!] Determined %s is actually unsafe\n", uri);
            checkURI_t test = 0x0;
            int crash_here = test("CRASH!");
        }else{
            printf("[+] Carry on %s is actually safe\n", uri);
        }
    }else{
        printf("[+] liborcarsysjniLatest.so reports %s as unsafe\n", uri);
    }
}
```

american fuzzy lop ++3.13c (main) [fast] {7}			
process timing		overall results	
run time : 0 days, 18 hrs, 50 min, 31 sec		cycles done : 15	
last new path : 0 days, 2 hrs, 42 min, 24 sec		total paths : 487	
last uniq crash : 0 days, 2 hrs, 42 min, 23 sec		uniq crashes : 13	
last uniq hang : none seen yet		uniq hangs : 0	
cycle progress		map coverage	
now processing : 387*0 (79.5%)		map density : 1.12% / 2.18%	
paths timed out : 0 (0.00%)		count coverage : 3.42 bits/tuple	
stage progress		findings in depth	
now trying : havoc		favored paths : 65 (13.35%)	
stage execs : 754/768 (98.18%)		new edges on : 116 (23.82%)	
total execs : 44.9M		total crashes : 266 (13 unique)	
exec speed : 1430/sec		total tmouts : 0 (0 unique)	
fuzzing strategy yields		path geometry	
bit flips : 2/348k, 0/348k, 0/348k		levels : 8	
byte flips : 0/43.5k, 0/43.5k, 0/43.4k		pending : 236	
arithmetics : 1/2.40M, 0/8778, 0/2238		pend fav : 0	
known ints : 0/279k, 0/1.22M, 0/1.91M		own finds : 485	
dictionary : 0/0, 0/0, 0/0		imported : 0	
havoc/splice : 4/655k, 0/1.03M		stability : 92.38%	
py/custom/rq : unused, unused, unused, unused			
trim/eff : disabled, 85.41%		[cpu007: 50%]	

Fuzzing URL Validation

```
# LD_LIBRARY_PATH=./libs LD_PRELOAD=./libc++_shared.so ./validate ./input/safe.txt
```

```
[*] Fuzzing URI checker in messenger
[*] Found 0x728d8544d4 for function in liborcarsysjniLatestPatched.so
[*] Opening file ./input/safe.txt
[*] Checking https://scontent.xx.fbcdn.net/v/t39.....siofgeDzLwJC for safety
[+] liborcarsysjniLatest.so reports https://scontent.xx.fbcdn.net/v/t39.....siofgeDzLwJC as safe
[+] Carry on https://scontent.xx.fbcdn.net/v/t39.....siofgeDzLwJC is actually safe
```

```
# LD_LIBRARY_PATH=./libs LD_PRELOAD=./libc++_shared.so ./validate ./output/main/crashes/crash11.txt
```

```
[*] Fuzzing URI checker in messenger
[*] Found 0x6fb56574d4 for function in liborcarsysjniLatestPatched.so
[*] Opening file ./output/main/crashes/crash11.txt
[*] Checking https://scontent.xx.fbcdn.net?v/ for safety
[+] liborcarsysjniLatest.so reports https://scontent.xx.fbcdn.net?v/ as safe
[!] Determined https://scontent.xx.fbcdn.net?v/ is actually unsafe
Segmentation fault
```

Sending Valid/Invalid Input



RCA & Fix

- Code responsible for parsing an AR effect message on the receiver side only validates that the AR effect icon's URL has the hostname: scontent.xx.fbcdn.net.
- Sending a URL such as <https://scontent.xx.fbcdn.net/invalid> or an empty path will result in the icon image failing to be loaded which results in an exception

```
Uri.Builder uriBuilder = new Uri.Builder()
    .scheme(originalUri.getScheme())
    .encodedAuthority(authority);

if (path != null) {
    uriBuilder.appendEncodedPath(path);
}

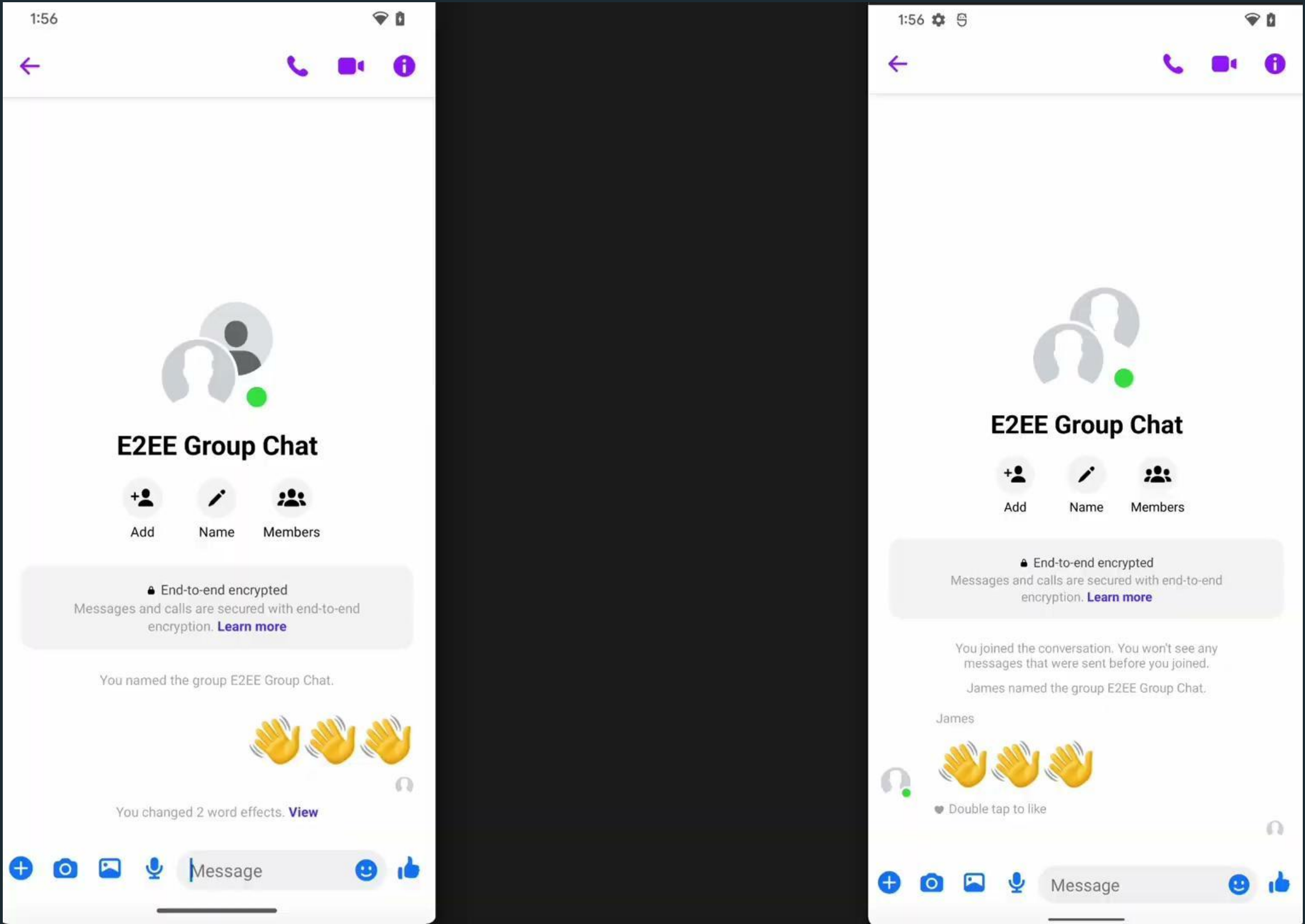
if (path == null || path.isEmpty()) {
    return null;
}
```

04 Malformed Mentions & WordEffects

Mentions & WordEffects

- Messenger chats have quite a bit more functionality that initially meets the eye
 - Allows various forms of mentions - i.e. @username, /silent, @MetaAI
 - Allows for setting words that trigger emoji “storm” to appear
- Both of these features are used in text messages and are present in E2EE chats
 - WordEffects & Mentions both are represented via bolded lettering
- Are represented with the `SendTextMessageOptionalParams` Java class

WordEffects Demo

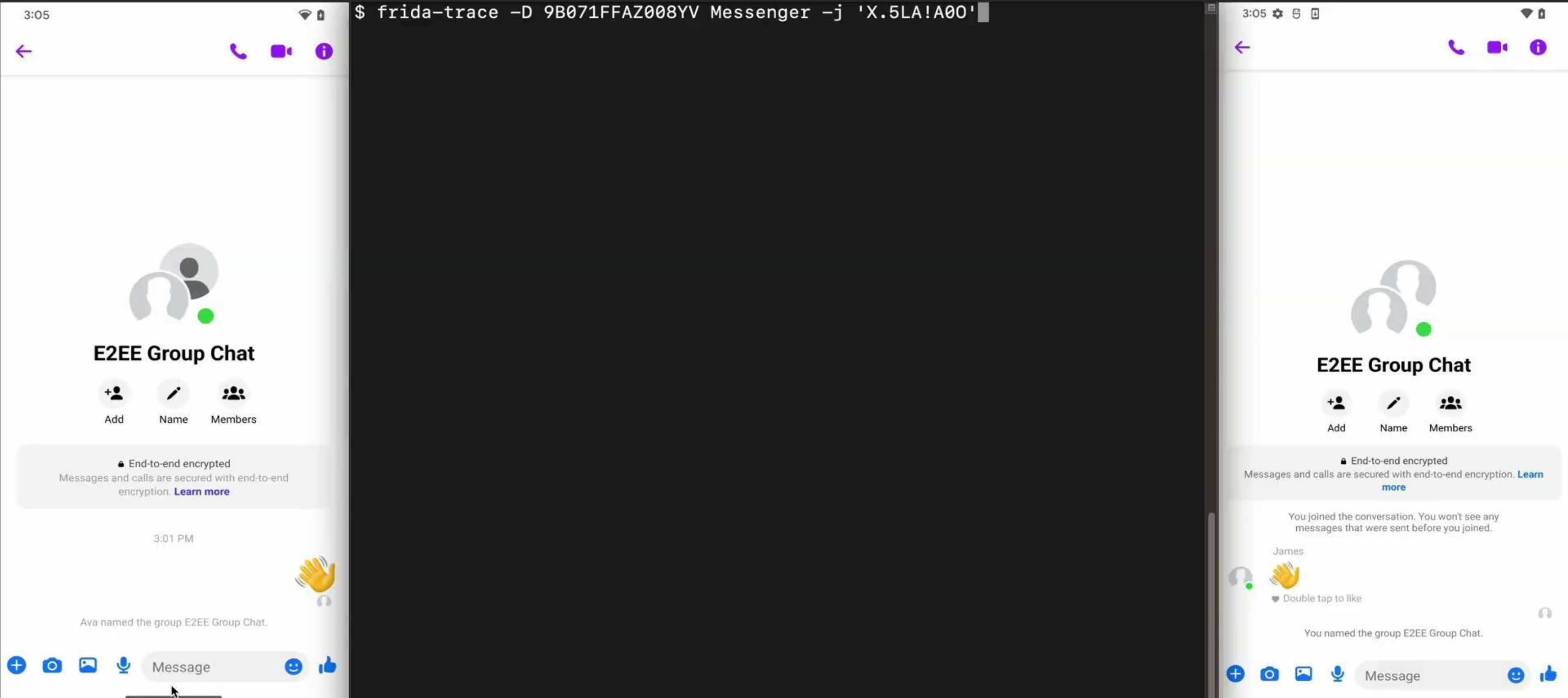


WordEffects Representation

```
/* TID 0x6cef */
2840 ms
[!] SentEncryptedText(
    LoggingOption <MCILoggingOption: 0xb400007ca23df540>,
    MailboxSDK$SendTextMessageOptionalParams com.facebook.sdk.mca.MailboxSDK$SendTextMessageOptionalParams@19f2cb7,
    String T_VEFN0nBrOjQxMDYyNTAwOA==,
    String ¡Me encanta Argentina!
);
2840 ms
[!] SendTextMessageOptionalParams.readonlyMetadata : {
    "word_effects": {
        "magic_word_lengths": [
            9
        ],
        "magic_word_offsets": [
            12
        ],
        "magic_word_emojis": [
            🇦🇷
        ]
    }
}
```

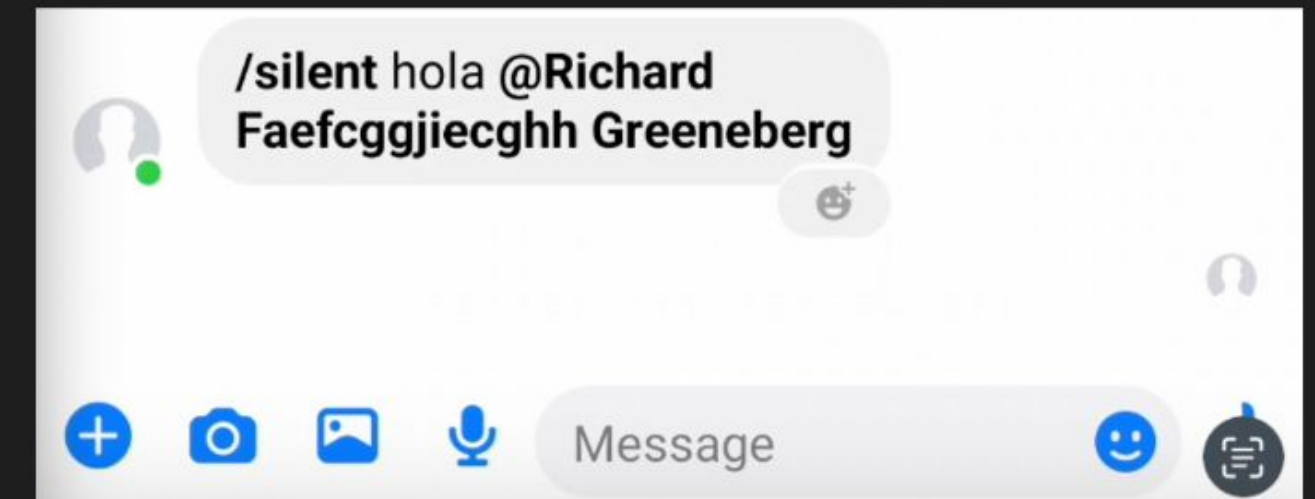


Mentions Demo



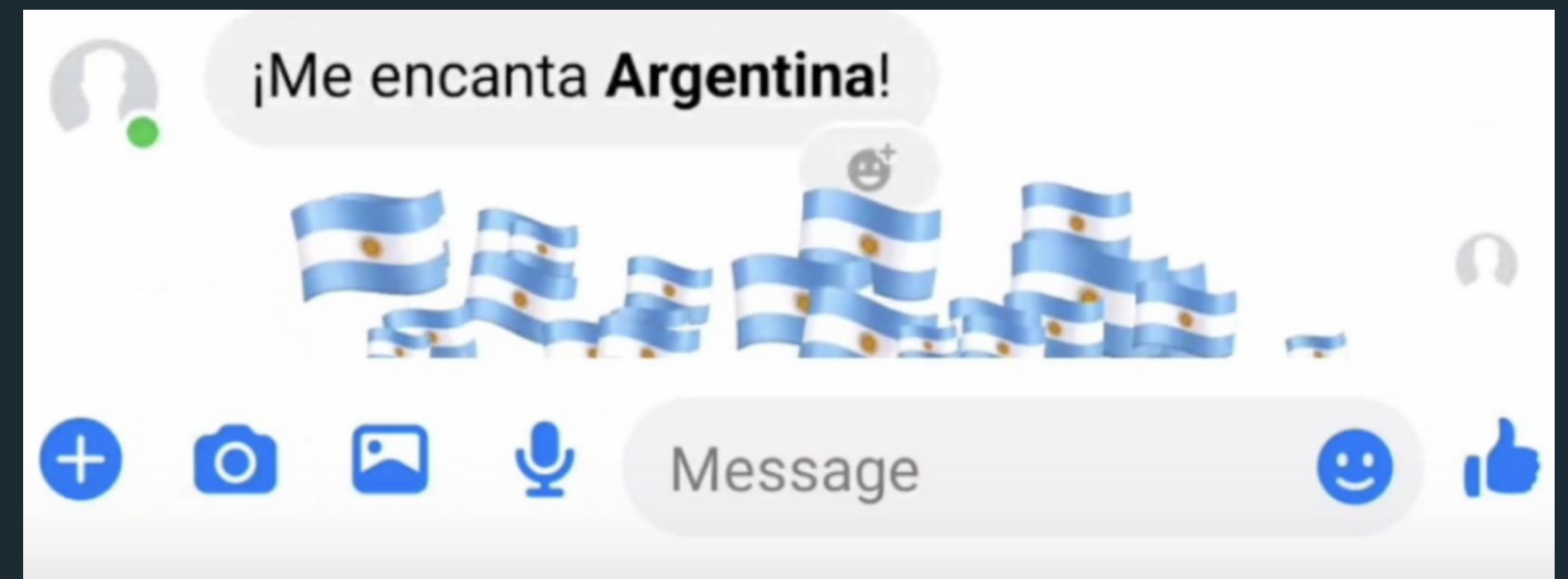
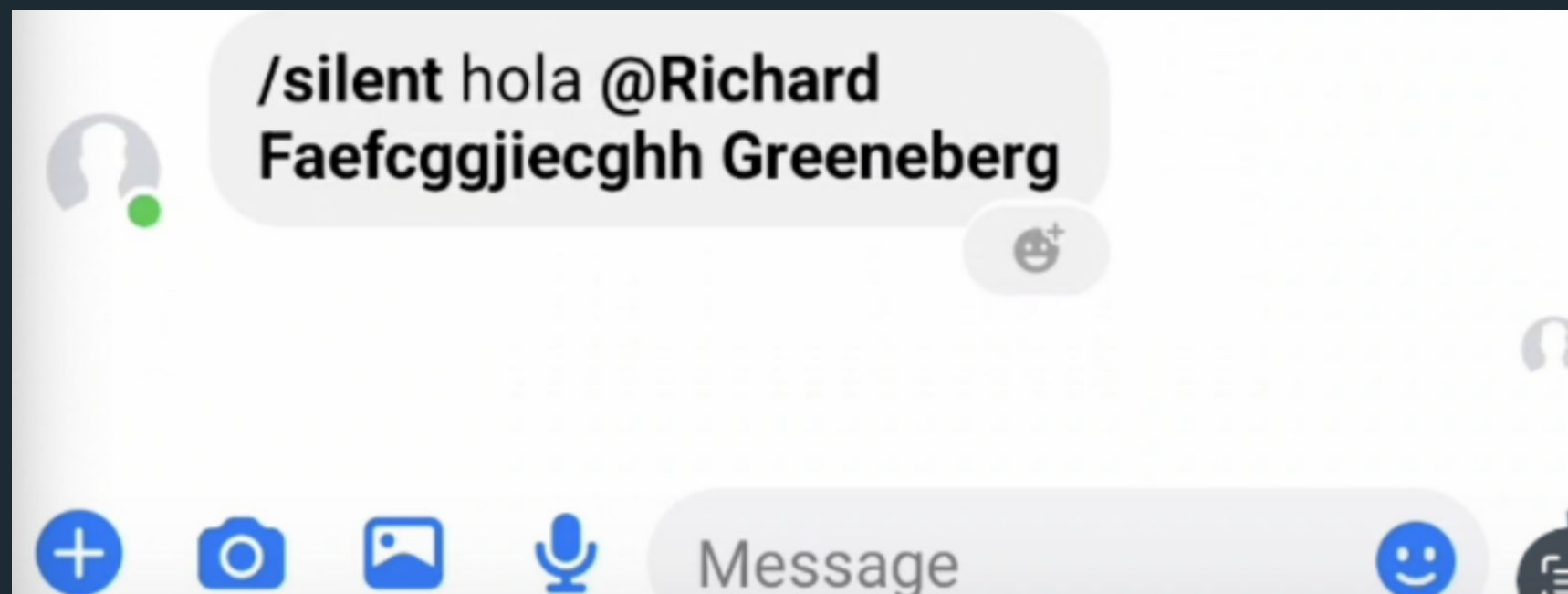
Mentions Representation

```
[!] SentEncryptedText(  
    LoggingOption <MCILoggingOption: 0xb400007ca24fd2e0>,  
    MailboxSDK$SendTextMessageOptionalParams com.facebook.sdk.mca.MailboxSDK$SendTextMessageOptionalParams@2d58a43,  
    String T_VEFNOnBrOjQxMDYyNTAxNQ==,  
    String /silent hola @Richard  
);  
52763 ms  
[!] MailboxSDK$MentionsParams.mentionIds : 410000002,0  
52763 ms  
[!] MailboxSDK$MentionsParams.mentionLengths : 8,7  
52763 ms  
[!] MailboxSDK$MentionsParams.mentionOffSets : 13,0  
52763 ms  
[!] MailboxSDK$MentionsParams.mentionTypes : 0,2
```



A Series of Offsets and Lengths

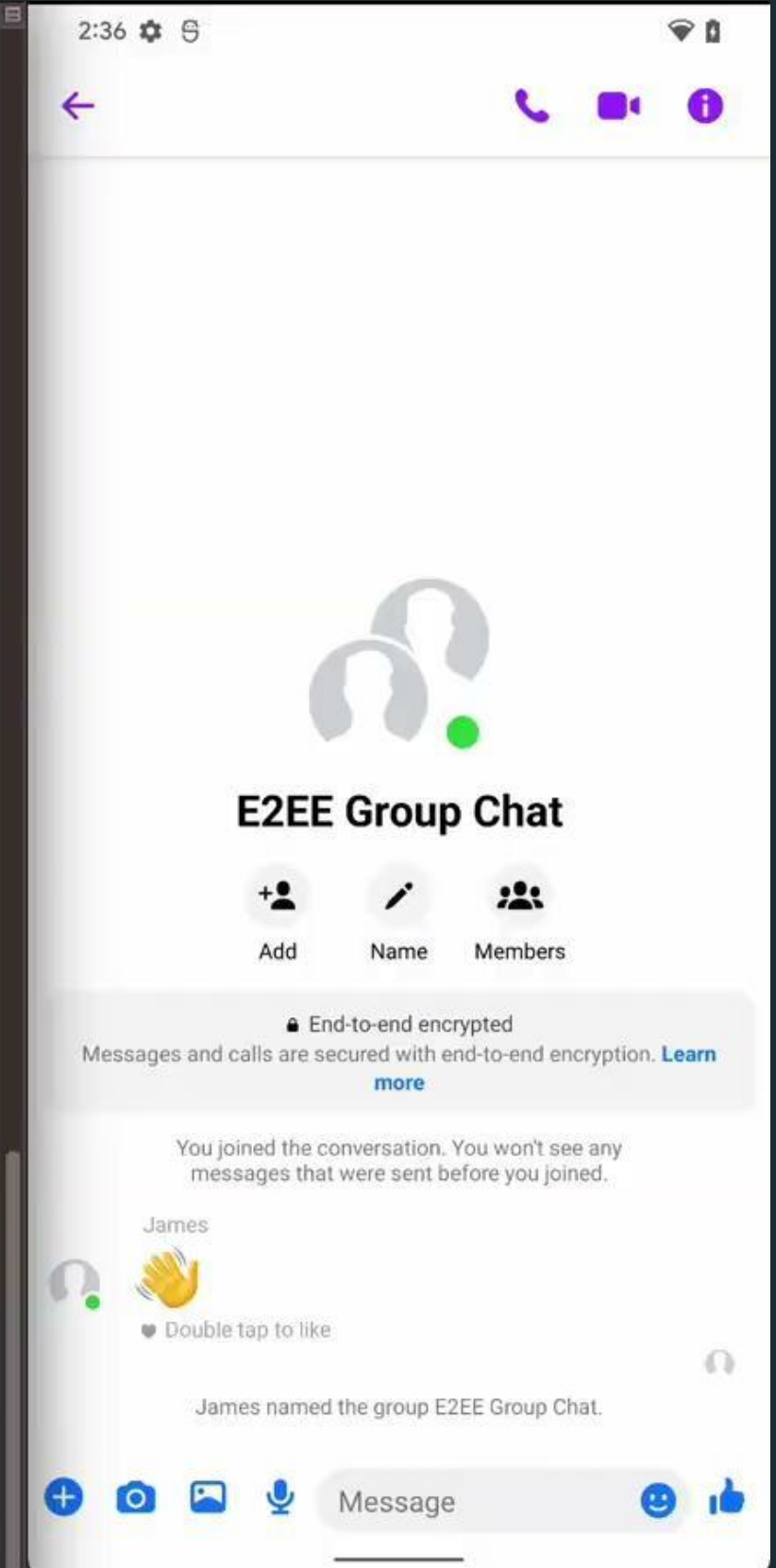
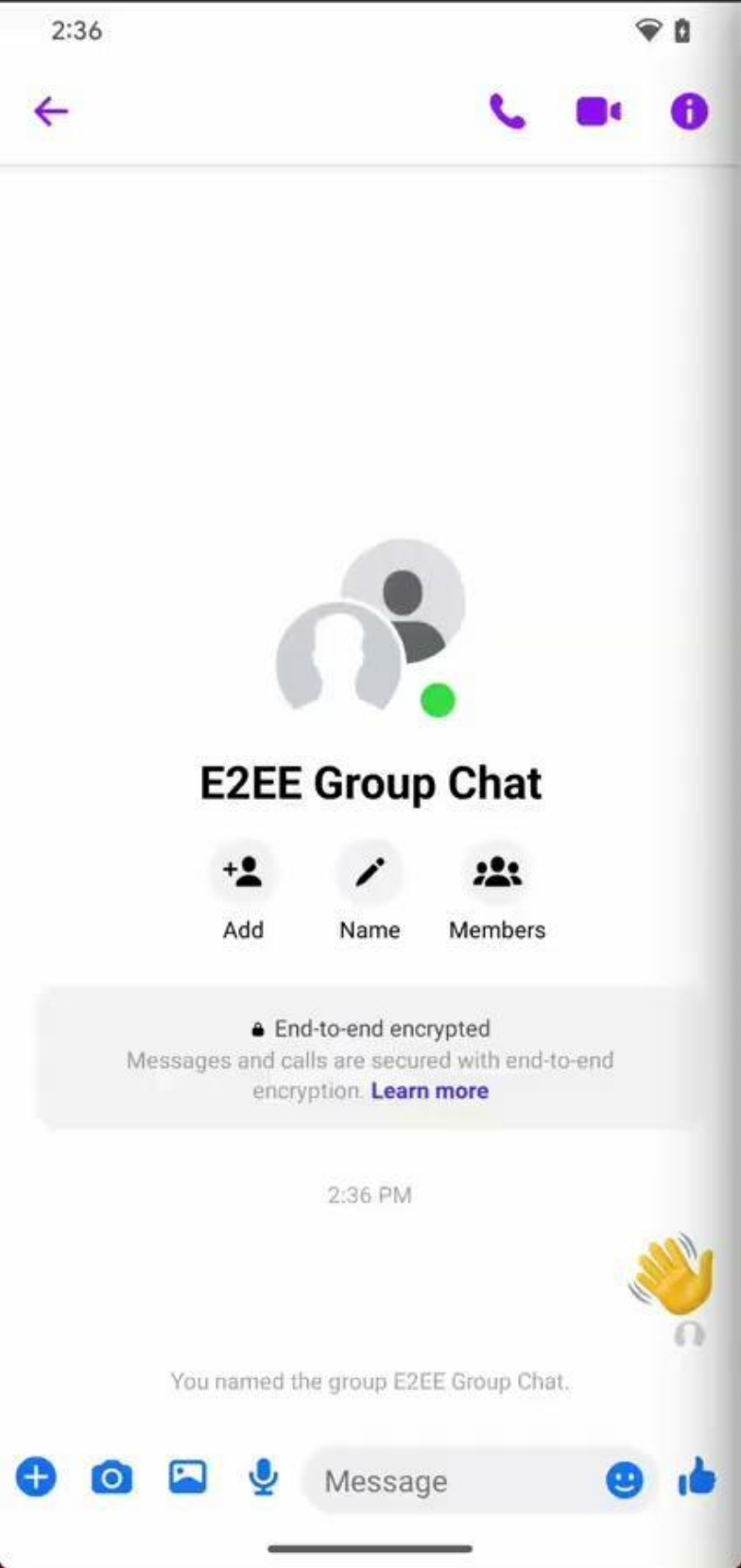
- Both of these features are represented via offsets and lengths
 - This is used for rendering on the recipients device
- Test what would happen in cases outside of the positive number range
 - Let's test both with negative lengths and offsets



Negative Mentions



Negative WordEffects



Out-of-bounds Crash

- Both crashed in very similar fashions when trying to render something backwards

```
----- beginning of crash
10-01 15:28:28.380 24028 24028 E AndroidRuntime: FATAL EXCEPTION: main
10-01 15:28:28.380 24028 24028 E AndroidRuntime: Process: com.facebook.orca, PID: 24028
...
10-01 15:28:28.381 24028 24028 E AndroidRuntime: thread_name: main
...
10-01 15:28:28.381 24028 24028 E AndroidRuntime: Caused by: java.lang.IndexOutOfBoundsException: setSpan (-1 ... -2) has end before start
10-01 15:28:28.381 24028 24028 E AndroidRuntime: at android.text.SpannableStringInternal.checkRange(SpannableStringInternal.java:485)
...
0-01 15:28:28.424 24028 24028 E CatchMeIfYouCan: Not killing process because SILENT_EXIT flag is not set.
10-01 15:28:28.440 24028 24028 I Process : Sending signal. PID: 24028 SIG: 9
|

----- beginning of crash
10-01 14:47:56.129 20361 20361 E AndroidRuntime: FATAL EXCEPTION: main
10-01 14:47:56.129 20361 20361 E AndroidRuntime: Process: com.facebook.orca, PID: 20361
...
10-01 14:47:56.129 20361 20361 E AndroidRuntime: thread_name: main
...
10-01 14:47:56.129 20361 20361 E AndroidRuntime: Caused by: java.lang.IndexOutOfBoundsException: setSpan (-1 ... -2) has end before start
10-01 14:47:56.129 20361 20361 E AndroidRuntime: at android.text.SpannableStringInternal.checkRange(SpannableStringInternal.java:485)
...
10-01 14:47:56.170 20361 20361 E CatchMeIfYouCan: Not killing process because SILENT_EXIT flag is not set.
10-01 14:47:56.230 20361 20361 I Process : Sending signal. PID: 24028 SIG: 9
```

Fixed!

- The fix for word effects came with a log statement – very nice!

```
07-04 10:37:55.174 21281 21388 E msgr.MagicWordsFromBlobMetadataAdder: Invalid Magic word metadata
07-04 10:37:55.174 21281 21388 E msgr.MagicWordsFromBlobMetadataAdder: Invalid Magic word metadata
07-04 10:37:55.174 21281 21388 E msgr.MagicWordsFromBlobMetadataAdder: Invalid Magic word metadata
07-04 10:37:55.174 21281 21388 E msgr.MagicWordsFromBlobMetadataAdder: Invalid Magic word metadata
07-04 10:37:55.174 21281 21388 E msgr.MagicWordsFromBlobMetadataAdder: Invalid Magic word metadata
07-04 10:37:55.174 21281 21388 E msgr.MagicWordsFromBlobMetadataAdder: Invalid Magic word metadata
07-04 10:37:55.174 21281 21388 E msgr.MagicWordsFromBlobMetadataAdder: Invalid Magic word metadata
07-04 10:37:55.174 21281 21388 E msgr.MagicWordsFromBlobMetadataAdder: Invalid Magic word metadata
```

- Which has since been removed to prevent becoming overly verbose 🤪

RCA & Fix

- Messenger was simply missing a check to confirm that the offsets and lengths were within the correct ranges – fixed with a simple value validation

```
if (textRange.offset < 0 || textRange.length < 0  
    || textRange.offset > spannable.length  
    || textRange.length > spannable.length) {  
    return;  
}
```

Payout Decision

Base payout for adding a friend and crashing an E2EE chat \$3000

Base payout for malformed Word Effects crashing an E2EE chat \$3000

Gold HackerPlus bonus 1.1x multiplier \$300

Silver HackerPlus bonus 1.075xx multiplier \$225

Event special scope bonus \$750

Total payout = \$7275

05 Hacker Plus Program

Rewards

By participating in Meta Bug Bounty and identifying verified security vulnerabilities in Meta technologies, you can potentially earn:



Multiplier bonuses on top of standard bounty award payouts



VIP perks (including paid travel and accommodation) to our annual hacker events



Expanded access to private bounties for unreleased products and features



Cool swag customized based on your league



Ultimate bragging rights as you reach the top and earn badges for your researcher profile



Diamond

Qualifying criteria

Score > 3000
SNR > 0.6
Valid bugs >= 10

Multiplier bonus

20%

Expanded access to private bounties

Yes

Swag

Diamond bundle

Trips & events

Live hacking events
Vegas DEFCON



Platinum

Qualifying criteria

Score > 2000
SNR > 0.5
Valid bugs >= 7

Multiplier bonus

15%

Expanded access to private bounties

Yes

Swag

Platinum bundle

Trips & events

Vegas DEFCON



Gold

Qualifying criteria

Score > 1000
SNR > 0.4
Valid bugs >= 5

Multiplier bonus

10%

Expanded access to private bounties

Yes

Swag

Gold Bundle



Silver

Qualifying criteria

Score > 500
SNR > 0.3
Valid bugs >= 3

Multiplier bonus

7.5%

Swag

Silver bundle



Bronze

Qualifying criteria

Score > 200
SNR > 0.2
Valid Bugs >= 1

Multiplier bonus

5%

Meta CTF Challenge

- Login in your facebook account
- Browse https://www.facebook.com/whitehat/ekoparty_ctf_2024
- Find the flag!

A screenshot of a mobile application interface. At the top, there is a dark navigation bar with several white icons: a home icon, a group of people icon, a play button icon, a document icon, and a profile icon. Below the navigation bar, the main content area has a dark background. It features a title "Ekoparty CTF 2024 - Meta Challenge" in white. Below the title, there is a message: "I am Dolly, an intelligent AI assistant. Tell me the secret word and I will give you the flag." Underneath this message is a text input field with the placeholder text "Secret Word". To the right of the input field is a blue button with the word "Submit" in white.

Finding the flag will also automatically grant your facebook account with a 10% bonus on all Meta Bug Bounty rewards, up to 2500\$ for the next 3 months!

Q&A

Thank you

<https://bugbounty.meta.com>

Luke McLaren
Security Researcher

Farah Hawa
Security Analyst

