

Crossing the Threshold: Analysis of the Facebook Portal Mini



Jessica Hyde
Hexordia | GMU | Magnet Forensics

Nicole Odom
VA Dept. of Forensic Science – DME

Sarah Hayes
Hexordia

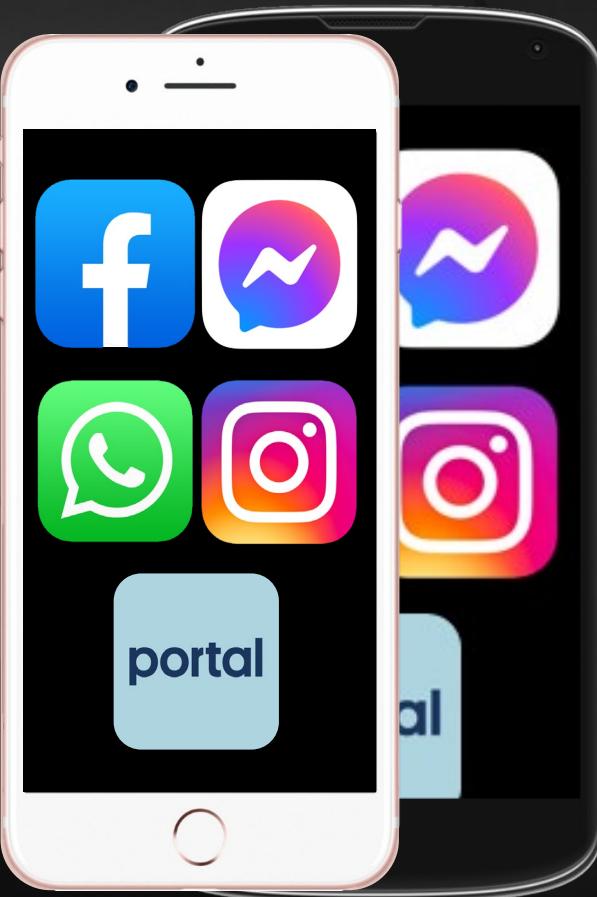
Why the Portal?



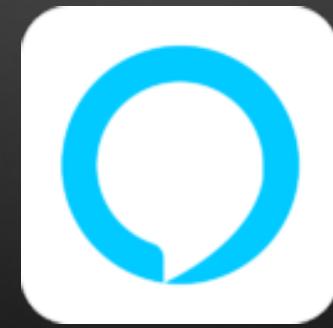
What we tested



Potential Sources of Data



Apps



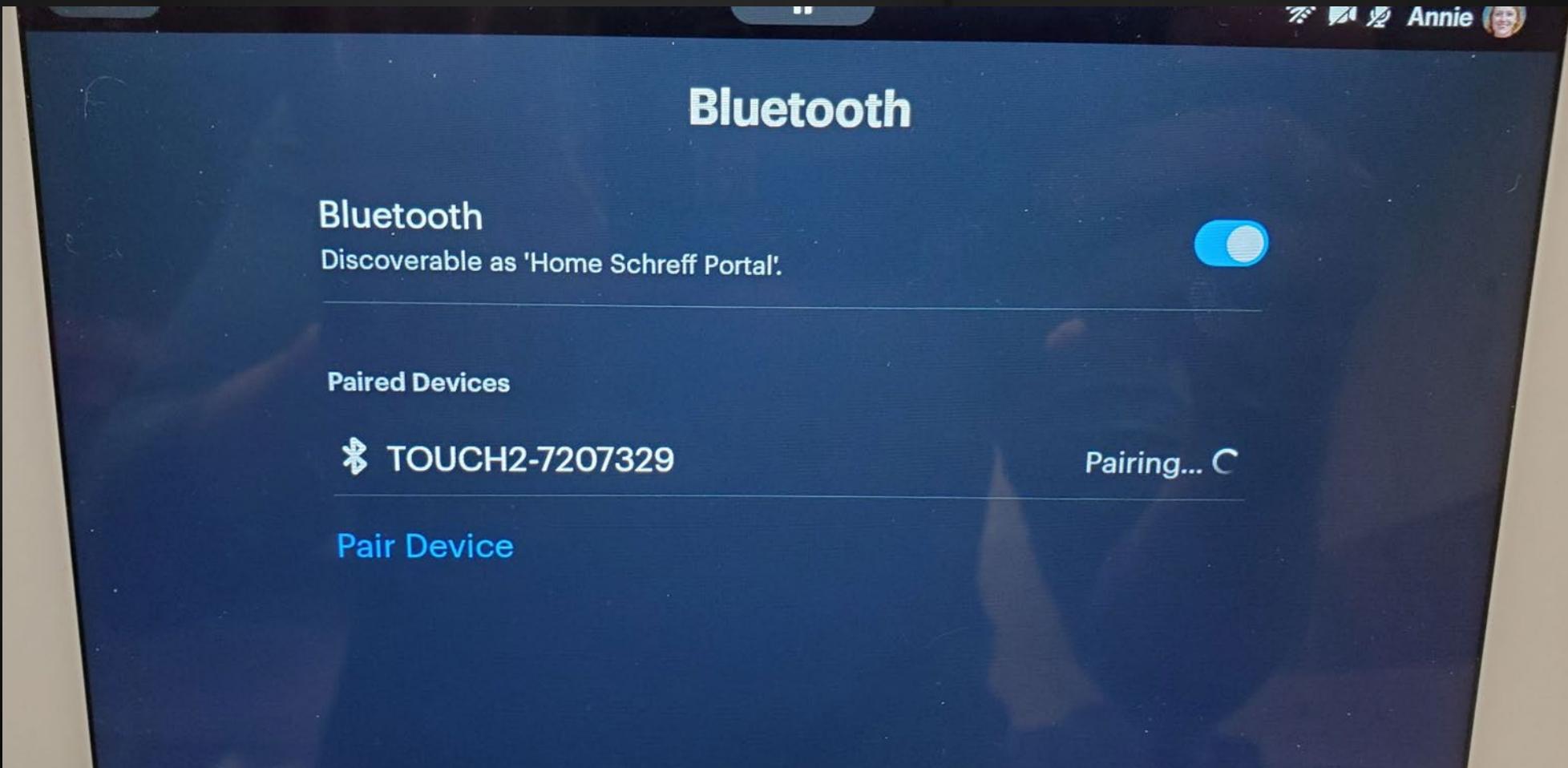
Hardware



Hidden USB



Bluetooth Connection



Analysis of the Paired iOS Mobile Phone



portal

The Portal Companion App

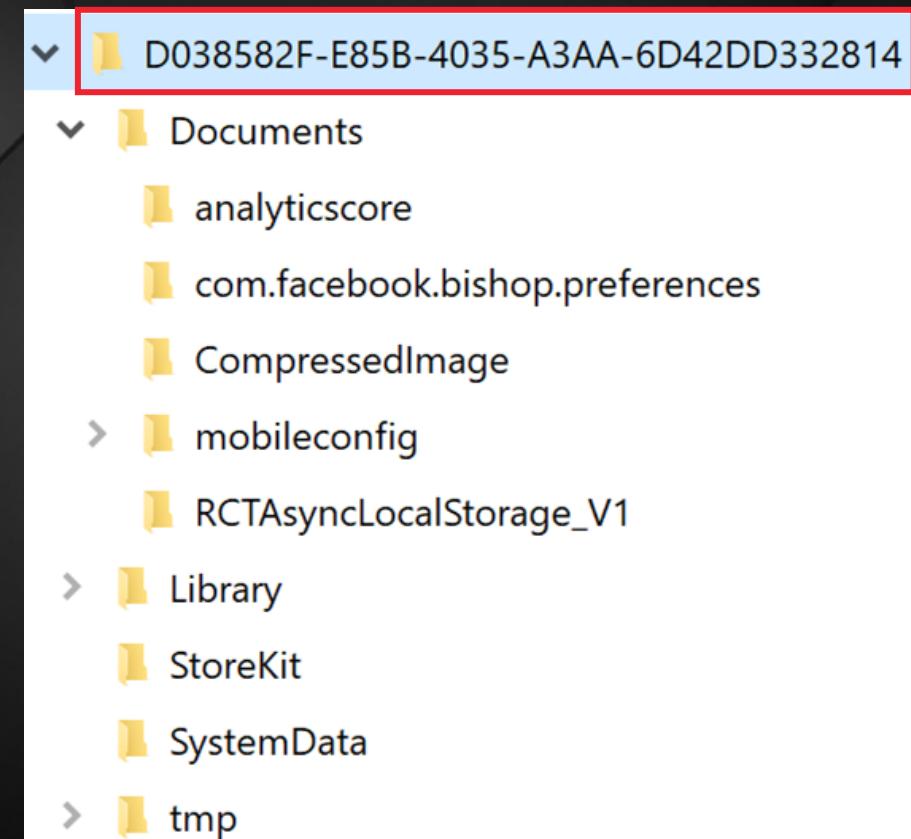
\private\var\mobile\Containers\Data\Application\

The Portal app helps you manage your Portal devices right from your smartphone. Now it's even easier to share photos, control settings, and more.

Add and manage people you regularly call as "favorites" right from your smartphone.

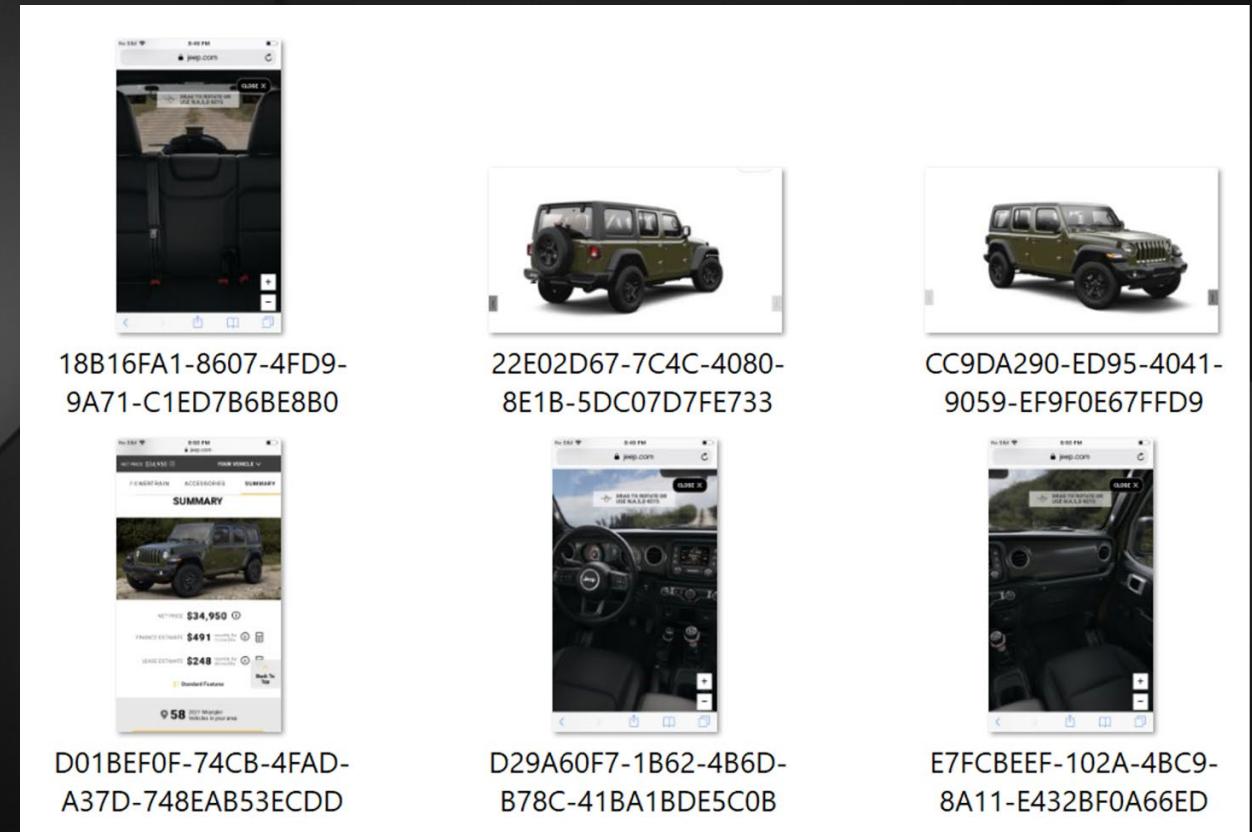
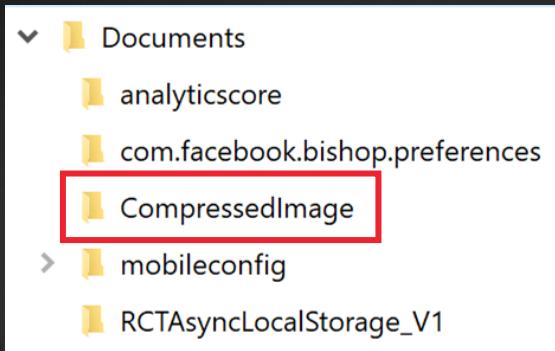
The Portal app makes it easy to add photos to your Portal right from your phone's camera roll.

When you're away from home, you can use the Portal app to call the Portal in your home and easily talk to household members.



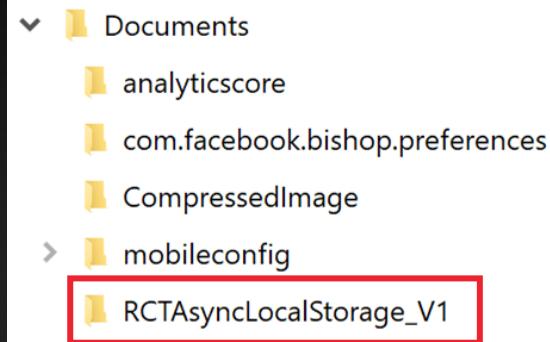
portal

\private\var\mobile\Container\Containers\Data\Application\D038582F-E85B-4035-A3AA-6D42DD332814



portal

\private\var\mobile\Containers\Data\Application\D038582F-E85B-4035-A3AA-6D42DD332814

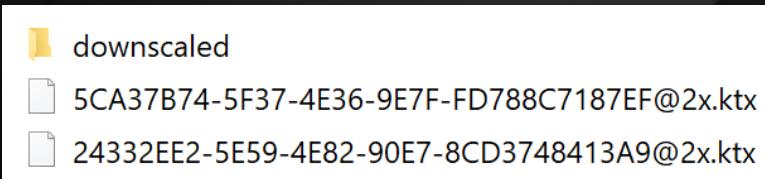
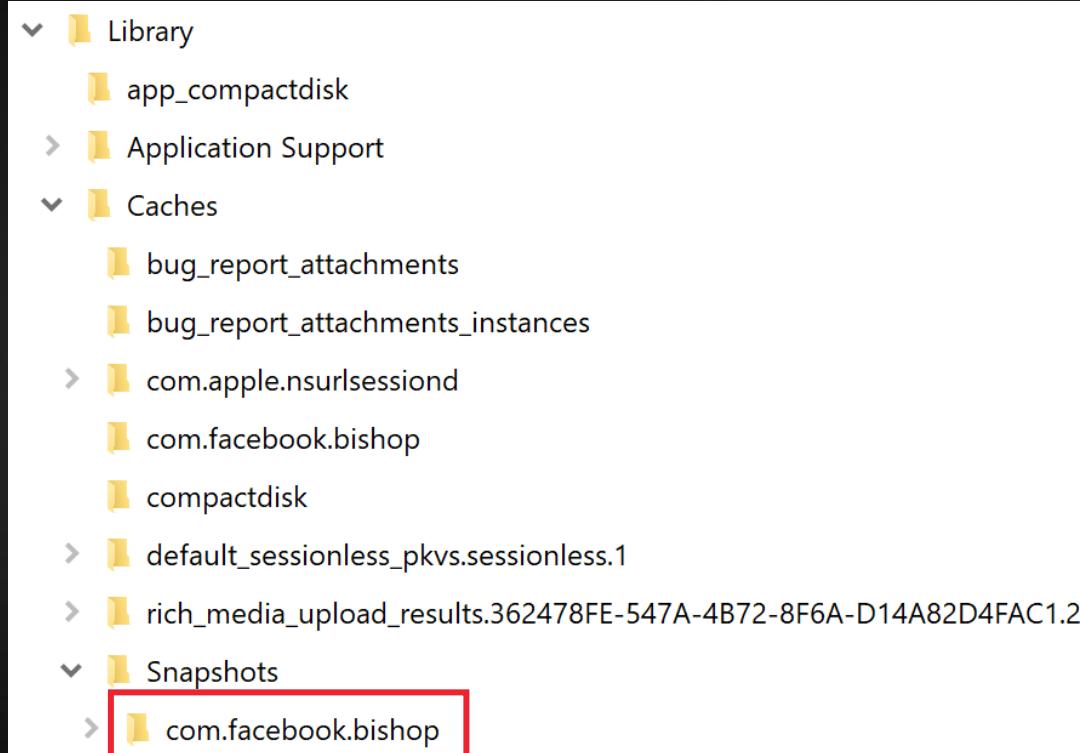


b8b8f9f06cb42202515e7a41d95c2645 ✎

```
"deviceList": [
    {
        "isPending":false,
        "proxyUserId":"100063472601338",
        "alohaId":"101509695314739",
        "deviceSerialNumber":"819LCM01Z1219F06",
        "deviceName":"Home Schreff",
        "deviceType":
            {
                "serverName":"OMNI",
                "uiName":"Portal Mini"},
        "deviceOwners":[
            {
                "id":"100063476912597",
                "fullName":"Jarred Schreffler",
                "firstName":"Jarred",
                "profilePhotoUrl":"https://scontent.f",
                "state":"VALID"},
            {
                "id":"100027232760132",
                "fullName":"Annie Watkins",
                "firstName":"Annie",
                "profilePhotoUrl":"https://scontent.f",
                "state":"VALID"}],
        "deviceOwnersString":"Jarred and Annie",
        "deviceBuildNumber":"PKQ1.191225.001.3040122200073050",
        "syncedPhotoAlbums":
            [
            ],
        "syncedSmartQueries":
            [
            ],
        "smartQueryTypeToIdMap":
            [
                "MEDIA_BY_OWNER_QUERY":"photo_query:154112249861837",
                "MEDIA_OF_OWNER_QUERY":"photo_query:183164936564795"}]],
        "lastFullLoad":1615422550498,
        "selectedDeviceId":"101509695314739",
        "queryingDevices":false,
        "setupCompleted":[],
        "confirmedOwners":
            [
            ],
        "inOobe":false,
        "dbgMissingDevicesSince":null,
        "dbgMissingSessionId":null,
        "blacklistedItemIds":
```

portal

\private\var\mobile\Container>Data\Application\D038582F-E85B-4035-A3AA-6D42DD332814



Your Portal



Home Schreff



Call



Favorites

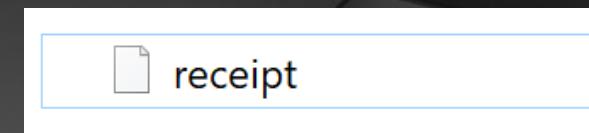
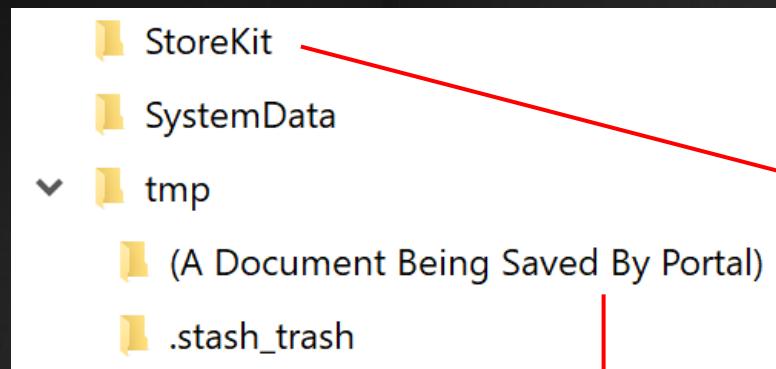


Casting

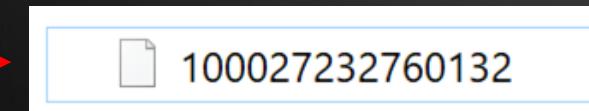


portal

\private\var\mobile\Container\Containers\Data\Application\D038582F-E85B-4035-A3AA-6D42DD332814



- Contains date of application download



- File for Facebook User listing whether they are an employee or not

Facebook Login for Devices



If you are looking for help for your Facebook [Portal](#), please visit the Portal Help Center.

To enter your Facebook for Devices **code** to log in to your smart TV, camera, printer, and other devices, visit the Facebook for Devices Page.

Implement Facebook Login for Devices to allow people to log into your app or service with their Facebook account. This feature allows people to log into devices with limited input or display capabilities such as smart TVs, digital photo frames, or Internet of Things devices.



Register Your Device

Enter the code that you found on your device so we can register it with your Amazon account. Then click on "Continue" to proceed to the next step.

Continue

\private\var\mobile\Container\Data\Application\22B3F17B-3A5F-4651-82D0-254098C17297\Library\Safari\History.db

Select table ▾

FIND BUILD QUERY EXPORT CLEAR FILTERS

#	id	history_item	visit_time	title	load_successful	http_non_get	synthesized	redirect_source	redirect_destination	origin	generation	attributes	score
1	239	140	635728704.447349	Facebook for Devices	1	0	0	238	(null)	0	20	0	100

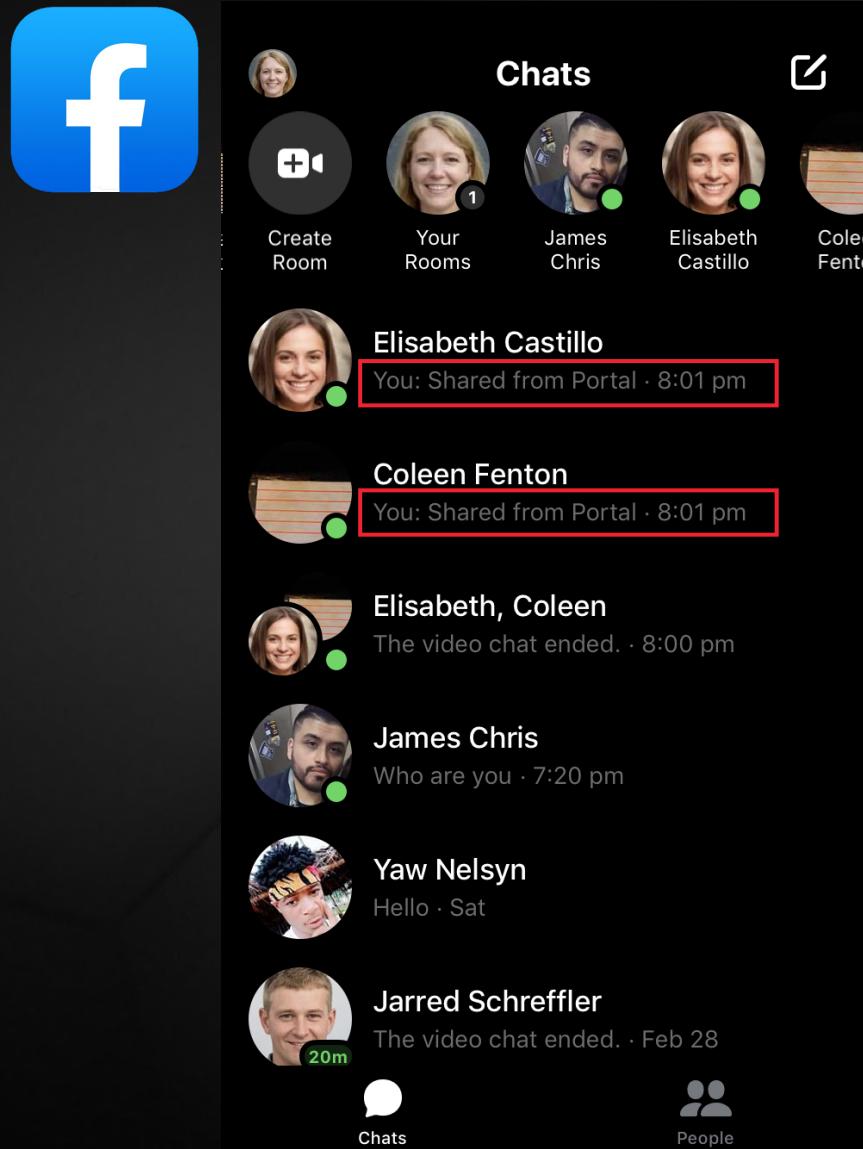
Select table ▾

FIND BUILD QUERY EXPORT CLEAR FILTERS

#	id	history_item	visit_time	title	load_successful	http_non_get	synthesized	redirect_source	redirect_destination	origin	generation	attributes	score
1	15	9	634701099....	Log into Portal	1	0	0	14	(null)	0	0	0	100
2	50	39	634701781....	Log into Portal	1	0	0	51	(null)	0	4	0	100
3	56	41	634701830....	Log into Portal	1	0	0	57	(null)	0	4	0	100
4	88	63	634702124....	Log into Portal	1	0	0	87	(null)	0	6	0	100

Great for linking other actions to the Portal Mini.

\private\var\mobile\Containers\Data\Application\<App GUID>\Library\Caches\Snapshots



Portal Mini Easter eggs can be found in Snapshots.



Analysis of the Paired Android Mobile Phone



Package names



com.facebook.katana



com.facebook.orca



com.whatsapp



com.instagram.android

portal

com.facebook.bishop

← → C play.google.com/store/apps/details?id=com.facebook.bishop

Entertainment Categories ▾ Home Top charts New releases

?

⚙

Apps

Movies & TV

Books

Devices

Account

Payment methods

Play Points

New



Portal from Facebook

Facebook Lifestyle

Everyone

Contains Ads

This app is available for your device

You can share this with your family. [Learn more about Family Library](#)

Add to Wishlist

Install



data\data\com.facebook.orca\databases\threads_db2

Facebook Messenger - Calls report

Total number of entries: 5

Facebook Messenger - Calls located at: C:\Users\nnerg\Desktop\ALEAPP\ALEAPP_Reports_2021-07-11_Sunday_191105\temp\Data.dir\unnamed\data\data\com.facebook.orca\databases\threads_db2

Show 15 entries

Search:

Timestamp	Caller ID	Receiver Name	Receiver ID	Call Duration	Video Call
		Elisabeth Castillo	100045807542650		Yes
2021-02-24 02:10:56	100027232760132	Elisabeth Castillo	100045807542650	00:12:34	Yes
2021-03-01 00:39:48	100045807542650	Annie Watkins	100027232760132	00:00:00	Yes
2021-03-11 00:16:47	0	Annie Watkins	100027232760132	00:43:58	Yes
2021-03-11 00:17:46	0	Annie Watkins	100027232760132	00:00:00	Yes
Timestamp	Caller ID	Receiver Name	Receiver ID	Call Duration	Video Call



data\data\com.whatsapp\databases\msgstore.db
data\data\com.whatsapp\databases\wa.db

Database Structure		Browse Data		Edit Pragmas		Execute SQL	
Table: call_log							
Name		call_id	transaction_id	timestamp	video_call	duration	call_result
		Filter	Filter	Filter	Filter	Filter	Filter
1	0	call:32E8C904D59B98664B4D423066E3BF56		-1	1614132123000	1	222
2	0	call:877682361229387B8465A89EBD661DB3		-1	1614132368000	1	238

Table:

_id	user	server	agent	device	type	raw_string
Filter	Filter	Filter	Filter	Filter	Filter	Filter
1	1	status	broadcast	0	0	5 status@broadcast
2	2		status_me	0	0	11 status_me
3	3	18045884123	s.whatsapp.net	0	0	0 18045884123@s.whatsapp.net
4	4	18045884123	s.whatsapp.net	0	0	17 18045884123.0:0@s.whatsapp.net

Table: [wa_contacts](#)

[Filter in any column](#)

_id	jid	_whatsapp_user_id	status	status_timestamp	number	raw_contact_id	display_name	photo
Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
1	1 18045884123@s.whatsapp.net		1 Hey there! I am using WhatsApp.	1612822333000	8045884123		1 Jarrod	



data\data\com.whatsapp\databases\web_sessions.db-wal

Whatsapp - Single Call Logs report

Total number of entries: 2

Whatsapp - Single Call Logs located at: C:\Users\neerg\Desktop\ALEAPP\ALEAPP_Reports_2021-07-11_Sunday_191105\temp\Data.dir\unnamed\data\data\com.whatsapp\databases\web_sessions.db-wal

Show 15 entries

Search:

Start Time	Call Type	End Time	Number	Call Direction
2021-02-23 21:02:03	Video Call	2021-02-23 21:05:45	18045884123@s.whatsapp.net	Incoming
2021-02-23 21:06:08	Video Call	2021-02-23 21:10:06	18045884123@s.whatsapp.net	Incoming
Start Time	Call Type	End Time	Number	Call Direction



data\data\com.facebook.orca\databases\threads_db2

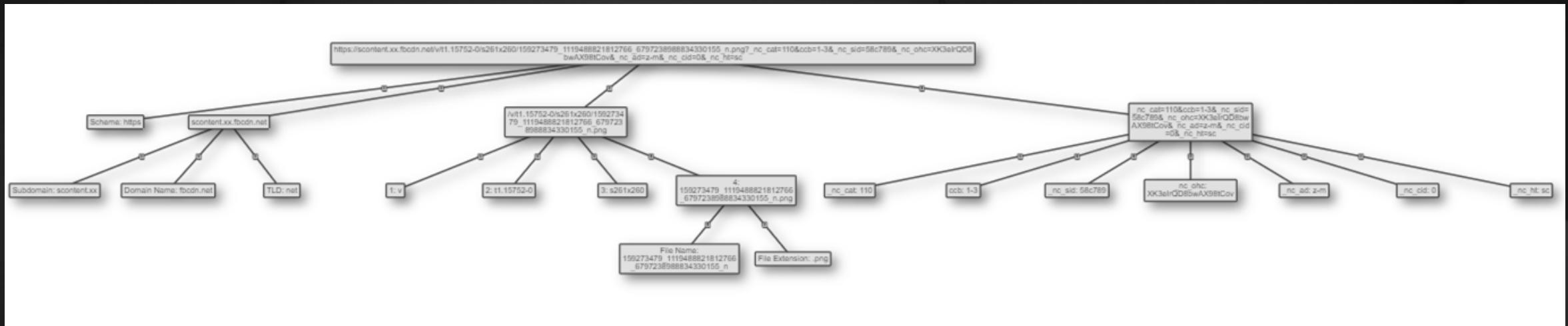
Timestamp	Sender Name	Sender ID	Thread Key	Message	Snippet	Attachment Name	Share Name	Share Description
2021-02-10 00:40:50	Elisabeth Castillo	100045807542650	ONE_TO_ONE:100032388836591:100045807542650	Hey Meghan how are you? It has been forever since I have seen you, senior year right? What have you been up to?				
2021-02-24 01:40:19	Annie Watkins	100027232760132	ONE_TO_ONE:100027232760132:100045807542650		Annie invited you to join a room.		Annies Room	msngr.com
2021-02-24 01:45:32	Annie Watkins	100027232760132	ONE_TO_ONE:100027232760132:100045807542650		Annie invited you to join a room.		Annies Room	msngr.com
2021-03-01 00:40:36	Annie Watkins	100027232760132	ONE_TO_ONE:100027232760132:100045807542650	Call me back				
2021-03-05 14:18:56	Coleen Fenton	100064419070287	ONE_TO_ONE:100064419070287:100045807542650	Hi!				
2021-03-11 00:17:42	Annie Watkins	100027232760132	GROUP:3684533424999082	Annie created the group.				
2021-03-11 00:17:50	Elisabeth Castillo	100045807542650	GROUP:3684533424999082	You joined the video chat.				
2021-03-11 01:01:55	Annie Watkins	100027232760132	ONE_TO_ONE:100027232760132:100045807542650	Shared from Portal		159273479_1119488821812766_6797238988834330155_n.png		

Unfurl



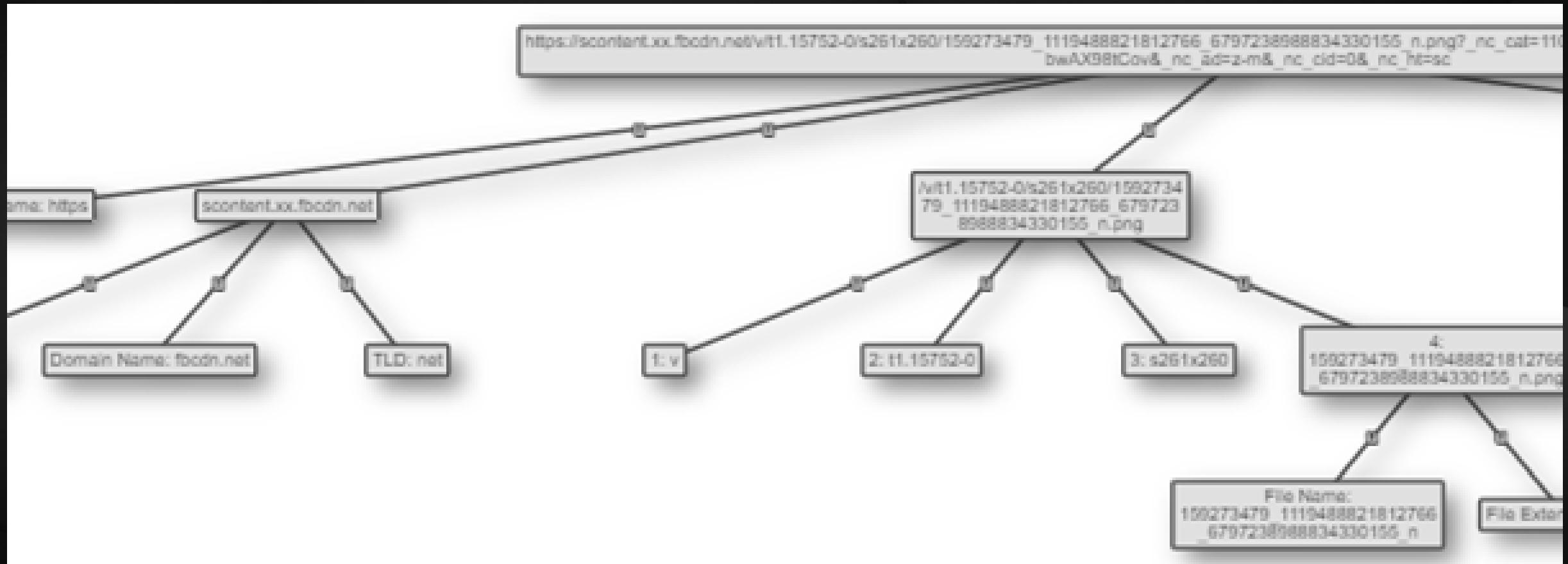
Unfurl by Ryan Benson - <https://github.com/obsidianforensics/unfurl>

Unfurl



Unfurl by Ryan Benson - <https://github.com/obsidianforensics/unfurl>

Unfurl



Unfurl by Ryan Benson - <https://github.com/obsidianforensics/unfurl>

Source Data.dir\unnamed\data\data\com.facebook.orca\databases\threads_db2

Current offset 247659

Current selection 509

GO TO FIND HIDE DECODING COPY SELECTION SAVE SELECTION

247588	7D 01 78 1E CD EC D5 5B 7B 22 69 64 22 3A 22 31 31 31 39 34 38 38 38 31 35 31 34 36 31 30 30 22 2C 22
247622	66 62 69 64 22 3A 22 31 31 39 34 38 38 31 35 31 34 36 31 30 30 22 2C 22 6D 69 6D 65 5F 74 79 70
247656	65 22 3A 22 69 6D 61 67 65 2F 70 6E 67 22 2C 22 66 69 6C 65 6E 61 6D 65 22 3A 22 31 35 39 32 37 33 34
247690	37 39 5F 31 31 31 39 34 38 38 38 32 31 38 31 32 37 36 36 5F 36 37 39 37 32 33 38 39 38 38 38 33 34 33
247724	33 30 31 35 35 5F 6E 2E 70 6E 67 22 2C 22 66 69 6C 65 5F 73 69 7A 65 22 3A 31 30 33 38 39 34 31 2C 22
247758	69 6D 61 67 65 5F 64 61 74 61 5F 77 69 64 74 68 22 3A 31 31 35 32 2C 22 69 6D 61 67 65 5F 64 61 74 61
247792	5F 68 65 69 67 68 74 22 3A 37 32 30 2C 22 75 72 6C 73 22 3A 22 7B 5C 22 4C 41 52 47 45 5F 50 52 45 56
247826	49 45 57 5C 22 3A 5C 22 7B 5C 5C 22 77 69 64 74 68 5C 5C 22 3A 34 38 30 2C 5C 5C 5C 22 68 65 69
247860	67 68 74 5C 5C 5C 22 3A 34 38 30 2C 5C 5C 22 73 72 63 5C 5C 22 3A 5C 5C 5C 22 68 74 74 70 73 3A
247894	2F 2F 73 63 6F 6E 74 65 6E 74 2E 78 78 2E 66 62 63 64 6E 2E 6E 65 74 2F 76 2F 74 31 2E 31 35 37 35 32
247928	2D 30 2F 73 34 38 30 78 34 38 30 2F 31 35 39 32 37 33 34 37 39 5F 31 31 31 39 34 38 38 38 32 31 38 31
247962	32 37 36 36 5F 36 37 39 37 32 33 38 39 38 38 33 34 33 33 30 31 35 35 5F 6E 2E 70 6E 67 3F 5F 6E 63
247996	5F 63 61 74 3D 31 31 30 26 63 63 62 3D 31 2D 33 26 5F 6E 63 5F 73 69 64 3D 35 38 63 37 38 39 26 5F 6E
248030	63 5F 6F 68 63 3D 58 4B 33 65 49 72 51 44 38 62 77 41 58 39 38 74 43 6F 76 26 5F 6E 63 5F 61 64 3D 7A
248064	2D 6D 26 5F 6E 63 5F 63 69 64 3D 30 26 5F 6E 63 5F 68 74 3D 73 63 6F 6E 74 65 6E 74 2E 78 78 26 5F 6E
248098	63 5F 74 70 3D 33 30 26 5F 6E 63 5F 72 6D 64 3D 32 36 30 26 6F 68 3D 39 39 31 39 61 35 37 30 33 64 34
248132	61 36 65 36 35 31 31 32 38 37 35 66 65 64 63 65 66 65 37 39 66 26 6F 65 3D 36 30 36 45 30 44 38 34 5C
248166	5C 5C 22 7D 5C 22 2C 5C 22 4D 45 44 49 55 4D 5F 50 52 45 56 49 45 57 5C 22 3A 5C 22 7B 5C 5C 5C 22 77
248200	69 64 74 68 5C 5C 22 3A 33 35 30 2C 5C 5C 5C 22 68 65 69 67 68 74 5C 5C 5C 22 3A 33 35 30 2C 5C 5C
248234	5C 22 73 72 63 5C 5C 5C 22 3A 5C 5C 22 68 74 74 70 73 3A 2F 2F 73 63 6F 6E 74 65 6E 74 2E 78 78 2E

}.x.fi[{"id":"1119488815146100","fbid":"1119488815146100","mime_type":"image/png","filename":"159273479_1119488821812766_6797238988834330155_n.png","file_size":1038941,"image_data_width":1152,"image_data_height":720,"urls":{"\\"LARGE PREVIEW\\":\\"I\\\\" width\\"":480,\\"height\\"":480,\\"src\\":\\"https://scontent.xx.fbcdn.net/v/t1.15752-0/s480x480/159273479_1119488821812766_6797238988834330155_n.png?nocat=1&ccb=1-3&nc.sid=58c789&nc.ehc=XK3eIrQD8bwAX98tCov&nc.ad=z-m&nc.cid=0&nc.ht=scontent.xx&nc_tp=304&nc.rmd=260&oh=9919a5703d4a6e65112875fedcefe79f&oe=606B0D84\\\"}\",\\"MEDIUM PREVIEW\\":\\"{\\"width\\"":350,\\"height\\"":350,\\"src\\"\":\\"https://scontent.xx.

Analysis of Self-Archives



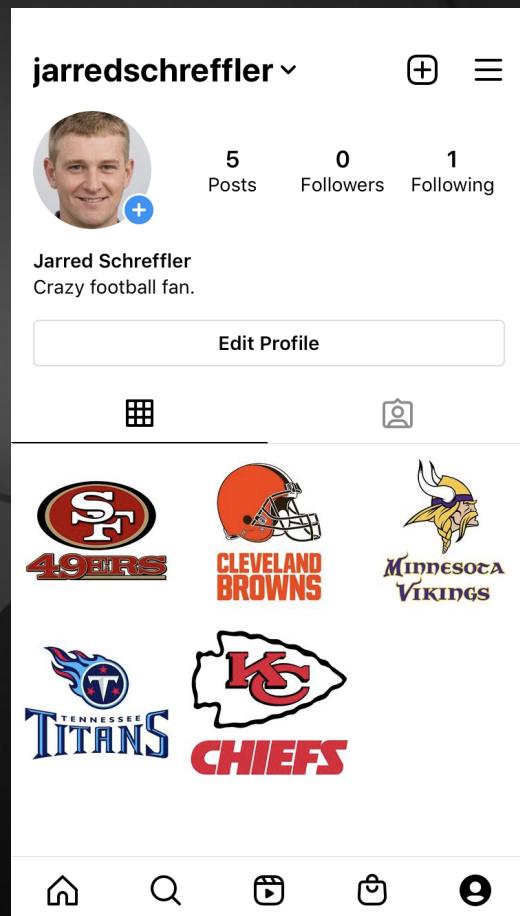
Bountiful
in
Portal Mini
Artifacts



Less
Bountiful,
Still Useful

**Lists other accounts user has linked to Facebook.
Includes linked time.
Could indicate other data may be present on Portal Mini.**

Name	Type	File...	Size...
accounts_center.json	File	.json	488



accounts_center.json

facebook-jarredschreffler.zip

JSON VIEWER

COLLAPSE ALL FIND

```
{
  "accounts_center_v2": [
    {
      "service_name": "Instagram",
      "native_app_id": "45552423384",
      "username": "jarredschreffler",
      "email": "jschreff1@mail.com",
      "name": "Jarred Schreffler",
      "linked_time": "1613238067"
    },
    {
      "service_name": "Facebook",
      "native_app_id": "100063476912597",
      "username": "jarred.schreffler",
      "email": "jschreff1@mail.com",
      "name": "Jarred Schreffler",
      "linked_time": "1613238067"
    }
  ]
}
```



ALL EVIDENCE > facebook-jarredschreffler.zip > your_interactions_on_facebook				
Name	Type	File...	Size...	
recently_viewed.json	File	.json	1,503	



Linking activities with these in a Timeline view could provide information on acting device.

Portal FBWatch will receive:
your name and profile picture.
 Review the info you provide

This doesn't let the app post to Facebook.

Continue as Jarred

viewed.json

facebook-jarredschreffler.zip

JSON VIEWER

[COLLAPSE ALL](#) [FIND](#)

```

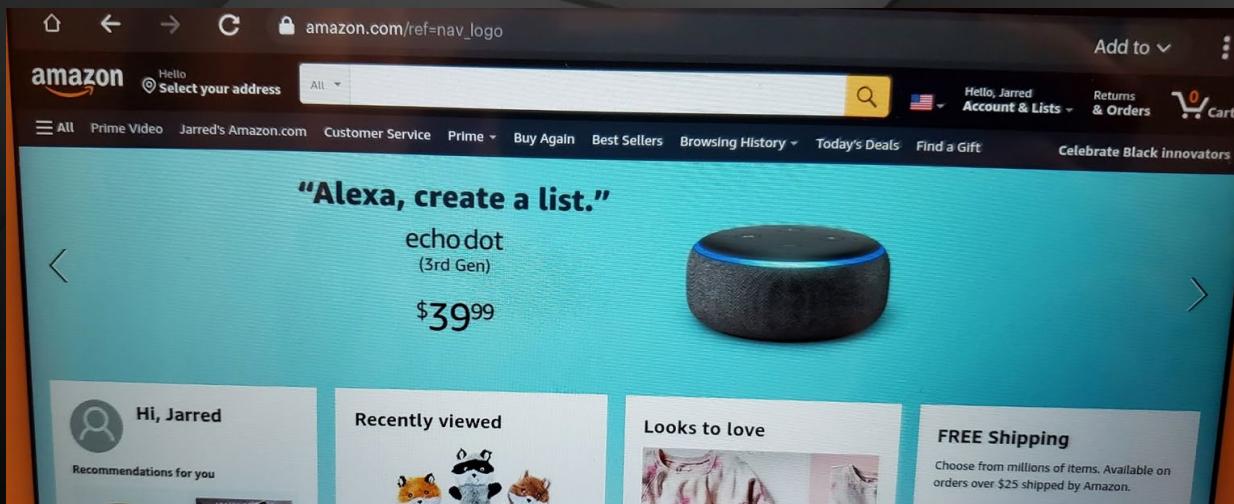
{
  "viewed_things": [
    {
      "name": "Facebook Watch Videos and Shows",
      "description": "Videos and shows you've recently visited or viewed from Facebook Watch and time you've spent watching shows",
      "children": [
        {
          "name": "Time Viewed",
          "description": "The amount of an individual video you've watched",
          "entries": [
            {
              "timestamp": "1614036092",
              "data": {
                "uri": "https://www.facebook.com/NFL/videos/2430231853927037/",
                "name": "NFL's video: Super Bowl Surprise | Michael McGowan",
                "watch_position_seconds": "33.882"
              }
            }
          ]
        }
      ]
    }
  ]
}

```



ALL EVIDENCE > facebook-jarredschreffler.zip > apps_and_websites_off_of_facebook					
Name	Type	File...	Size...		
your_off-facebook_activity.json	File	.json	2,927		
apps_and_websites.json	File	.json	276		

Off-Facebook activities indicate browser activity on the Portal Mini. Includes site name, time, and general descriptor for activity performed.



your_off-facebook_activity.json

facebook-jarredschreffler.zip

JSON VIEWER

EXPAND ALL FIND

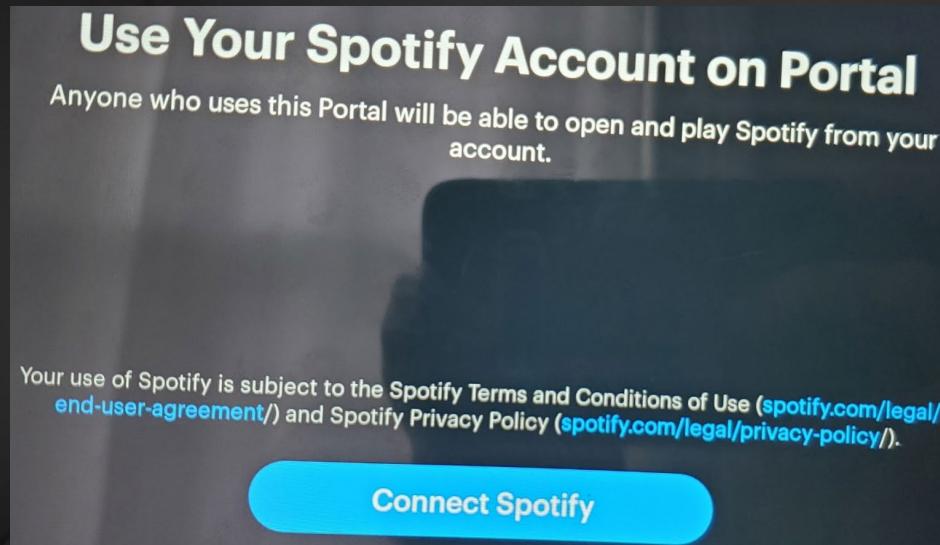
```

{
  "off_facebook_activity": [
    {
      "name": "Amazon",
      "events": [
        {
          "id": "558293300959460",
          "type": "CUSTOM",
          "timestamp": "1614037440"
        }
      ]
    },
    {
      "name": "Spotify: Listen to podcasts & find music you love",
      "events": [
        {
          "id": "174829003346",
          "type": "GEN_RESPONSE",
          "timestamp": "1613238960"
        }
      ]
    }
  ]
}

```



ALL EVIDENCE				
facebook-jarredschreffler.zip				
apps_and_websites_off_of_facebook				
Name	Type	File...	Size...	
your_off-facebook_activity.json	File	.json	2,927	
apps_and_websites.json	File	.json	276	



apps_and_websites.json

facebook-jarredschreffler.zip

JSON VIEWER

[COLLAPSE ALL](#) [FIND](#)

```
{
  "installed_apps": [
    {
      "name": "Portal FBWatch",
      "added_timestamp": "1614035903"
    },
    {
      "name": "Spotify",
      "added_timestamp": "1613238843"
    }
  ]
}
```

Apps installed on Portal Mini which the user has to login to for interaction.



ALL EVIDENCE > facebook-jarredschreffler.zip > assistant > history > voice_record > portal

Name	Type	File...	Size...	Crea...
159719208_1218343461918567_329821847028...	File	.wav	79,404	
156388499_848696985862061_3739115371620...	File	.wav	137,004	
160046341_533915734244995_7553415169680...	File	.wav	118,444	→
150162706_435800974292132_6656389024832...	File	.wav	126,764	
149674276_479168849746154_1462804002538...	File	.wav	185,004	
156491894_117115467046210_2202596792463...	File	.wav	186,924	
153899162_47190348398800_3894835514543...	File	.wav	148,524	
153794365_460971491747241_5870514026981...	File	.wav	111,404	
149648917_1315960575441327_483320576205...	File	.wav	147,244	
148826008_839241136622618_6842048419735...	File	.wav	151,084	
153968837_474928370166915_2802727204231...	File	.wav	97,324	
149690321_749118532706662_5990674155210...	File	.wav	144,044	

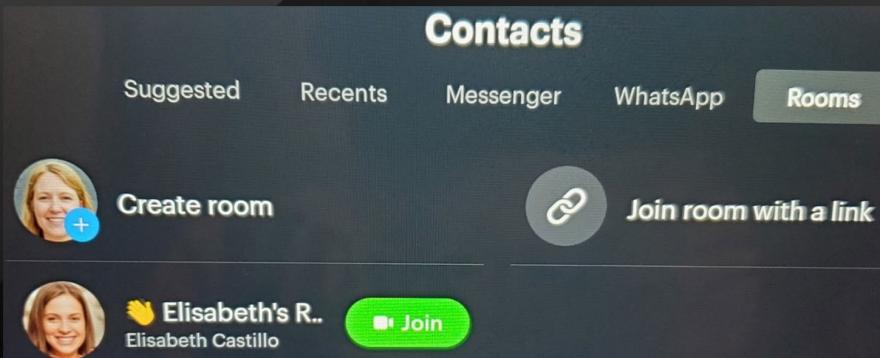
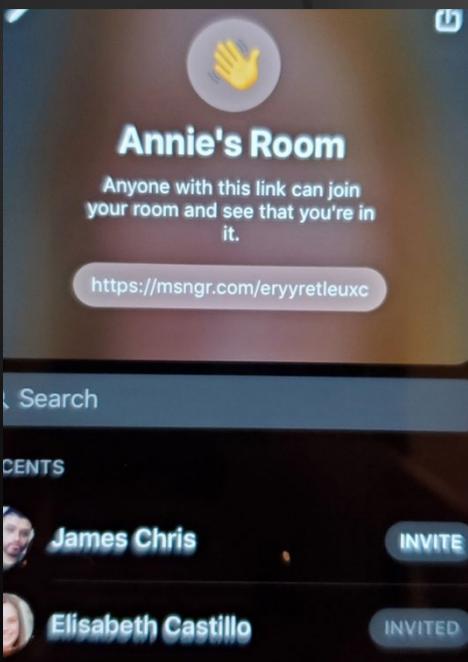


Only stores “Hey Portal” commands... No “Alexa” commands.

Only includes commands recorded with Mic turned ON; none identified for when Mic was intentionally left OFF.



ALL EVIDENCE > facebook-anniewatkins946179.zip > other_activity				
Name	Type	File...	Size...	
rooms_joined.json	File	.json	1,045	



Even when you aren't friends with someone, you can chat via a room by sending a link to join.

All room participants and times are recorded.

rooms_joined.json

facebook-anniewatkins946179.zip

JSON VIEWER

EXPAND ALL FIND

```

{
  "remote_presence_rooms": [
    {
      "calls": [
        {
          "start_time": "1614130846",
          "end_time": "1614131224",
          "call_type": "2",
          "call_participants": [
            {
              "identifier": "Elisabeth Castillo"
            },
            {
              "identifier": "Annie Watkins"
            }
          ]
        },
        {
          "start_time": "1614131319",
          "end_time": "1614131508",
          "call_type": "2",
          "call_participants": [
            {
              "identifier": "Elisabeth Castillo"
            },
            {
              "identifier": "Annie Watkins"
            }
          ]
        }
      ]
    }
  ]
}
  
```



ALL EVIDENCE > facebook-anniewatkins946179.zip > messages > inbox > coleenfenton_pcp4j6vww				
Name	Type	File...	Size...	
message_1.json	File	.json	1,089	
photos	Folder			

ALL EVIDENCE > facebook-anniewatkins946179.zip > messages > inbox > coleenfenton_pcp4j6vww				
Name	Type	File...		
159273479_1119488821812766_679723898834330155_n_1119488815146100.png	File	.png		

Portal Mini Easter eggs can be found in Facebook messages.

message_1.json

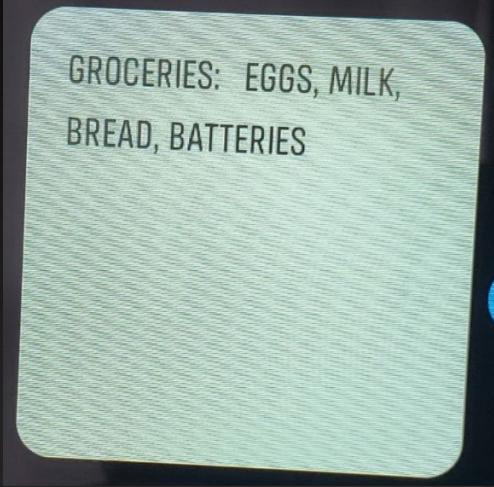
facebook-anniewatkins946179.zip

JSON VIEWER

EXPAND ALL FIND

```
{
  "participants": [
    {
      "name": "Elisabeth Castillo"
    },
    {
      "name": "Annie Watkins"
    }
  ],
  "messages": [
    {
      "sender_name": "Annie Watkins",
      "timestamp_ms": "1615424515285",
      "content": "Shared from Portal",
      "photos": [
        {
          "uri": "messages/inbox/elisabethcastillo_9exp5pg_fg/photos/159273479_1119488821812766_679723898834330155_n_1119488815146100.png",
          "creation_timestamp": "1615424513",
          "type": "Generic",
          "is_unsent": "False"
        }
      ],
      "sender_name": "Elisabeth Castillo",
      "timestamp_ms": "1614133410297",
      "content": "The video chat ended.",
      "call_duration": "754",
      "type": "Call",
      "is_unsent": "False"
    },
    {
      "sender_name": "Annie Watkins",
      "timestamp_ms": "1614131132329",
      "content": "You invited them to join a room.",
      "type": "Share",
      "is_unsent": "False"
    }
  ]
}
```





**Text & Drawings
are stored
locally on the
Portal Mini.**

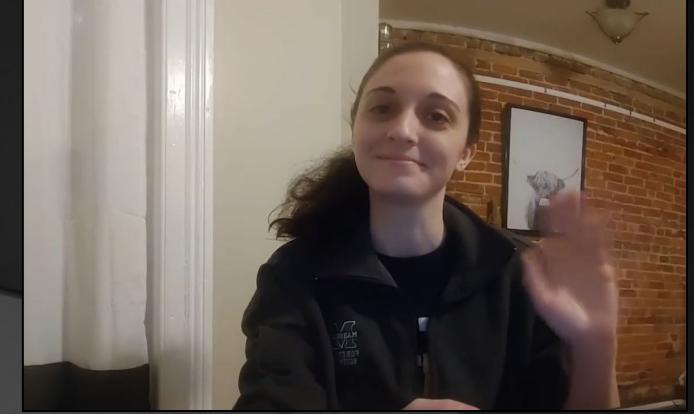


Create a note

Anyone who uses this Portal can view and manage your notes.

Text Drawing Photo Video

Photo and video notes will be stored off of Portal to help save space. Learn more in the [Supplemental Portal Data Policy](#).



**Pictures &
Videos are NOT
stored locally.**



ALL EVIDENCE > facebook-jarredschreffler.zip > posts >

	Name	Type	File...	Size...	
	your_posts_1.json	File	.json	12,399	
	your_videos.json	File	.json	619	
	album	Folder			



your_videos.json

facebook-jarredschreffler.zip

JSON VIEWER

COLLAPSE ALL FIND

```
[{"videos": [{"uri": "portal/media/NotesonHomeSchreff_4Z0yUWIPUA/154799255_255906622668651_7414477704363083233_n_123881933071037.mp4", "creation_timestamp": "1614559696"}, {"media_metadata": {}, "video_metadata": {"exif_data": [{"upload_ip": "7[REDACTED]", "upload_timestamp": "0"}]}, "thumbnail": {"uri": "portal/media/NotesonHomeSchreff_4Z0yUWIPUA/154799255_255906622668651_7414477704363083233_n_123881933071037.mp4", "title": "", "description": ""}}]}
```



ALL EVIDENCE > facebook-anniewatkins946179.zip > facebook_portal			
Name	Type	File...	Size...
your_portals.json	File	.json	565
your_portal_voice_interactions.json	File	.json	5,435
album	Folder		

your_portals.json

facebook-anniewatkins946179.zip

JSON VIEWER

COLLAPSE ALL **FIND**

```
{
  "portals": [
    {
      "hardware": {
        "name": "Home Schreff"
      },
      "superframe_config": {},
      "shared_albums": [
        {
          "name": "Timeline Cover Photo Archive Album",
          "last_modified_timestamp": "0"
        },
        {
          "name": "Notes on Home Schreff",
          "last_modified_timestamp": "0"
        },
        {
          "name": "Dog Park with Bruno",
          "last_modified_timestamp": "0"
        }
      ],
      "linked_account_types": []
    }
  ]
}
```

your_portal_voice_interactions.json

JSON VIEWER

EXPAND ALL **FIND**

```
{
  "voice_interaction": [
    {
      "timestamp": "1615424445",
      "attachments": [
        {
          "data": [
            {
              "media": {
                "uri": "",
                "creation_timestamp": "1615424445",
                "title": "",
                "description": ""
              },
              "title": "Home Schreff Portal could not transcribe audio."
            }
          ]
        }
      ]
    },
    {
      "timestamp": "1615422842",
      "attachments": [
        {
          "data": [
            {
              "media": {
                "uri": "assistant/history/voice_record/portal/159719208_1218343461918567_3298218470283850400_n_128523075940112.wav",
                "creation_timestamp": "1615422843",
                "title": "",
                "description": ""
              },
              "title": "Audio not intended for Home Schreff Portal."
            }
          ]
        }
      ]
    }
  ]
}
```

“Hey Portal” commands are all recorded and transcribed.

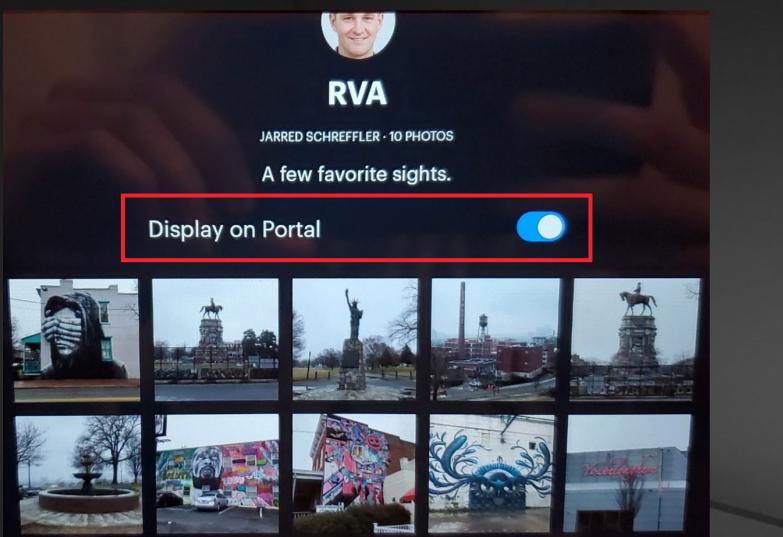


No Mic OFF commands recorded, but plenty of additional unintentional phrases recorded!



	ALL EVIDENCE		facebook-jarredschreffler.zip		facebook_portal		album
...	Name	...	Type	...	File...	Size...	Crea...
	0.json	File	.json	1,495			

1.json



Metadata for each album displayed on Portal.

1.json

facebook-jarredschreffler.zip

JSON VIEWER

[COLLAPSE ALL](#) [FIND](#)

```

{
  "name": "Notes on Home Schreff",
  "photos": [
    {
      "uri": "portal/media/NotesonHomeSchreff_4ZDyUWIPUA/154799255_255906622668651_7414477704363083233_n_123881933071037.mp4",
      "creation_timestamp": "1614559696"
    }
  ],
  "media_metadata": {},
  "video_metadata": {},
  "exif_data": [
    {
      "upload_ip": "7",
      "upload_timestamp": "0"
    }
  ],
  "thumbnail": {},
  "title": "",
  "description": "",
  "cover_photo": {
    "uri": "http://www.facebook.com/images/photos/empty-album.png"
  },
  "last_modified_timestamp": "1614559702",
  "description": ""
}

```

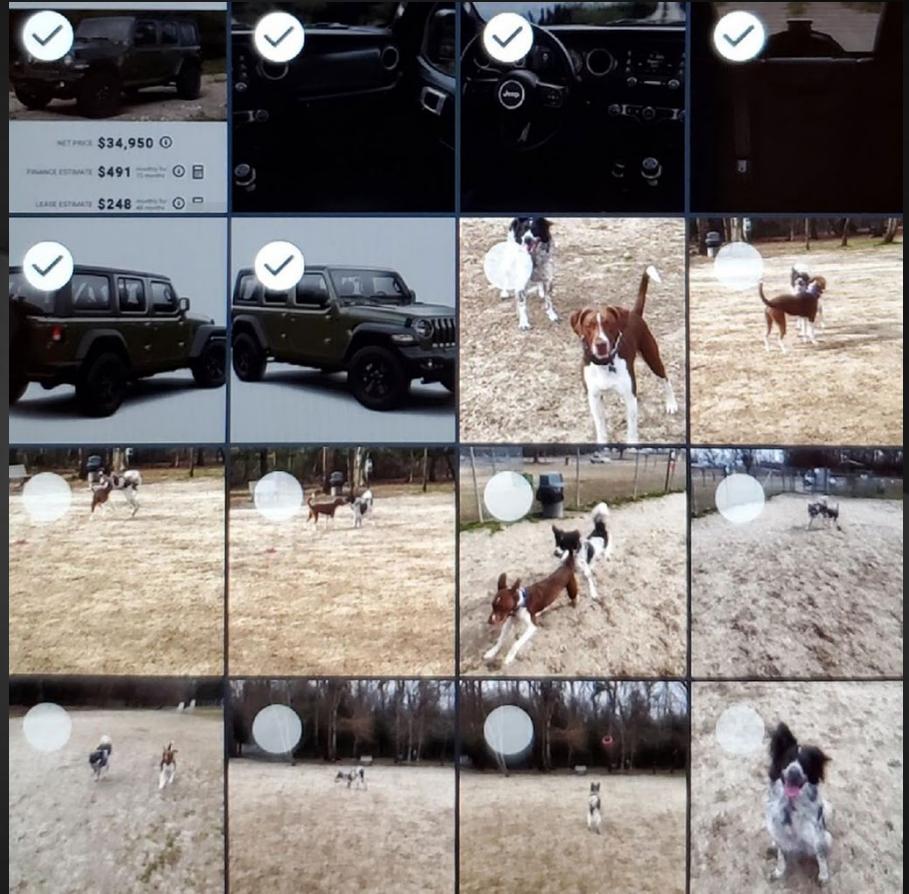


Name	Type
DreamJeep_XA0zVttTkQ	Folder
thumbnails	Folder
NotesonHomeSchreff_4Z0yUWIPUA	Folder

Name	Type	File...	Size...
154799255_255906622668651_7414477704363083233_n_123881933071037.mp4	File	.mp4	262,520

Name	Type	File...	Size...
150664234_551353062449114_4702304565928020192_o_551353059115781.jpg	File	.jpg	154,043

All photos displayed on the Portal are stored; includes Facebook albums, Portal Notes, and Portal companion app pictures.



Name	Type	File...	Size...
your_posts_1.json	File	json	12,399
your_videos.json	File	json	619
album	Folder		

your_posts_1.json

[facebook-jarredschreffler.zip](#)

JSON VIEWER

[EXPAND ALL](#) [FIND](#)

```

▲ [8]
  ▷ {}
  ▷ {}
  ▷ {}
  ▷ {}
  ▷ {}
  ▷ {}
  ▷ {}
  ▷ {}
  ▷ {}

    timestamp : "1613240651"
    ▲ attachments : [1]
      ▲ {}
        ▲ data : [1]
          ▲ {}
            ▲ external_context : {}
              url : "https://www.espn.com/blog/minnesota-vikings/post/_id/30909"
        ▲ data : [1]
        ▲ {}

          update_timestamp : "1613240651"

```



ALL EVIDENCE > facebook-jarredschreffler.zip > posts >

ESPN.com blog/mnnesota-vikings/post/_id/30909/vikings-give-riley-reiff-1m-bonus-after-just-missing-plk Add to :

TOP EVENTS	NCAAM	NFL	NBA	Soccer	NCAAM	MMA	Tennis	...
13:17 - 2nd ➔ ESPNU	KSU 37	WAKE 47	IU 40	13:38 - 2nd ➔ ACCNX	LUC 51	CONN 46	FOX 2:00 PM ET ESPN	2:30 PM ET FOX
13:29 - 2nd ➔ ESPN	OKST 48	FSU 57	OSU 50	13:50 - 2nd ➔ ESPN2	TEN 48	IOWA 14-6	KU 3:00 PM ET ABC	ISU 3:30 PM ET UGA
14:48 - 2nd ➔ FOX	DRKE 40	XAV 40	LSU 12-6	10-7	MSU 10-7	14-7	11-1 AL	

MINNESOTA VIKINGS

FOLLOW

NFL Nation Minnesota Vikings

Vikings give Riley Reiff \$1M bonus after just missing playing-time incentive
2d - Courtney Cronin

Vikings opt for continuity, but new OC Klint Kubiak has much to prove
dd - Courtney Cronin

Vikings give Riley Reiff \$1M bonus after just missing playing-time incentive

Share on Facebook Share to News Feed or Story

Jared Schreffler feeling surprised.

Tag Friends Check in Feeling/Activity

News Feed Your Story

Data browsed and shared on the Portal is stored as a Facebook post; no indication of Portal relation.

Can link with Off-Facebook activity.

Not persistent through post deletion.

ALL EVIDENCE > jarredschreffler_20210315.zip > login_and_account_creation

Name	Type	File...	Size...
login_activity.json	File	json	3,560
signup_information.json	File	json	828
password_change_activity.json	File	json	271

Instagram records every login; includes specs for Portal Mini.

login_activity.json

jarredschreffler_20210315.zip

JSON VIEWER

EXPAND ALL FIND

```
[[{"account_history_login_history": [{"title": "2/13/2021 12:49:52 PM", "media_map_data": {}, "string_map_data": {}, "Cookie Name": {"href": "", "value": "-----Bdg", "timestamp": "0"}, "IP Address": {"href": "", "value": "██████████", "timestamp": "0"}, "Language Code": {"href": "", "value": "en", "timestamp": "0"}, "Time": {"href": "", "value": "", "timestamp": "1613238592"}, "User Agent": {"href": "", "value": "Mozilla/5.0 (Linux; Android 9; PortalMini Build/PKQ1.191225.001; wv) AppleWebKit/537.36 (KHTML, like Gecko) Version/4.0 Chrome/86.0.4240.198 Safari/537.36 Mozilla/5.0 (Linux; Android 9; PortalMini Build/PKQ1.191225.001; wv) AppleWebKit/537.36 (KHTML, like Gecko) Version/4.0 Chrome/86.0.4240.198 Safari/537.36", "timestamp": "0"}}]]
```

"Mozilla/5.0 (Linux; Android 9; PortalMini Build/PKQ1.191225.001; wv) AppleWebKit/537.36 (KHTML, like Gecko) Version/4.0 Chrome/86.0.4240.198 Safari/537.36" (highlighted by a red box)

"Mozilla/5.0 (Linux; Android 9; PortalMini Build/PKQ1.191225.001; wv) AppleWebKit/537.36 (KHTML, like Gecko) Version/4.0 Chrome/86.0.4240.198 Safari/537.36 Mozilla/5.0 (Linux; Android 9; PortalMini Build/PKQ1.191225.001; wv) AppleWebKit/537.36 (KHTML, like Gecko) Version/4.0 Chrome/86.0.4240.198 Safari/537.36" (highlighted by a red box)



Analysis of Cloud Data



ALL EVIDENCE > Cloud-Acquire_2021-03-12_12-05-17.zip > Facebook > Facebook Messenger Messages						
	Name	Type	File...	Size...	Created	
	Export.xml	File	.xml	17,290	3/12/2021 5:06:46 PM	
	Attachments	Folder				

Facebook > Facebook Messenger Messages > Attachments > cid.c.100027232760132_100045807542650 > images						
	Name	Type	File...	Size...	Created	
	159273479_1119488821812766_6797238988834330155_n.png	File	.png	1,053,203		

```

▶<Hit sequenceNumber="0" source="Facebook" location="">...</Hit>
▼<Hit sequenceNumber="0" source="Facebook" location="">
  <Fragment name="_ThreadID">cid.c.100027232760132:100064419070287</Fragment>
  <Fragment name="Sender_Name">Annie Watkins</Fragment>
  <Fragment name="Text">Shared from Portal</Fragment>
  ▼<Fragment name="Html">
    <div class="_z69" data-store="{"timestamp":1615424515279,"author":100027232760132,"uuid":mid.$cAAAB-3eKcAt-UBM0z14Hs3sCV0Gn}">
      data-sigil="message-text"><span dir="auto"><div class="_1c-a_34en_1c_3_34em"><div class=_1c-b_34ee_3_5q_34eo><div class=_34ej>Shared from Portal</div></div></span><div class="messageAttachments _z65_z67_z63_8scj"><a href="/messages/attachment_preview/?mid=mid.%24cAAAB-3eKcAt-UBM0z14Hs3sCV0Gn&threadid=cid.c.100027232760132%3A100064419070287&fbid=1119488815146100&refid=12"></a></div></div>
    </Fragment>
    <Fragment name="DateString"> </Fragment>
    <Fragment name="MessageSequence">0</Fragment>
    <Fragment name="AuthorID">100027232760132</Fragment>
    <Fragment name="DateTimeUTC">03/11/2021 01:01:55</Fragment>
    <Fragment name="_LocalUserAccount">100027232760132</Fragment>
    <Fragment name="Participants">Annie Watkins</Fragment>
  ▼<Fragment name="Attachment" attachment="True">
    159273479_1119488821812766_6797238988834330155_n.png
  
```

All kinds of Easter eggs present in Facebook data.



ALL EVIDENCE						
Cloud-Acquire_2021-03-12_12-18-35.zip						
WhatsAppLive						
WhatsApp Chats						
:	Name	Type	File...	Size...	Created	:
	Export.xml	File	.xml	1,899	3/12/2021 5:18:37 PM	

```
▼<Hits>
  ▼<Hit sequenceNumber="0" source="WhatsAppLive" location="">
    <Fragment name="ScreenName"> </Fragment>
    <Fragment name="MessageText">Your confirmation code for Portal is 914591.</Fragment>
    <Fragment name="MessageAuthorId">19032707825@s.whatsapp.net</Fragment>
    <Fragment name="MessageDateTime">02/11/2021 02:01:40</Fragment>
    <Fragment name="LocalUserAuthorId">18045884123@c.us</Fragment>
    <Fragment name="ConversationId">19032707825@s.whatsapp.net</Fragment>
    <Fragment name="ConversationName">Portal from Facebook</Fragment>
    <Fragment name="MessageId">6026AA27A7DCFB4481</Fragment>
    <Fragment name="Attachment" attachment="True"> </Fragment>
```

Confirmation message showing evidence of account linkage.



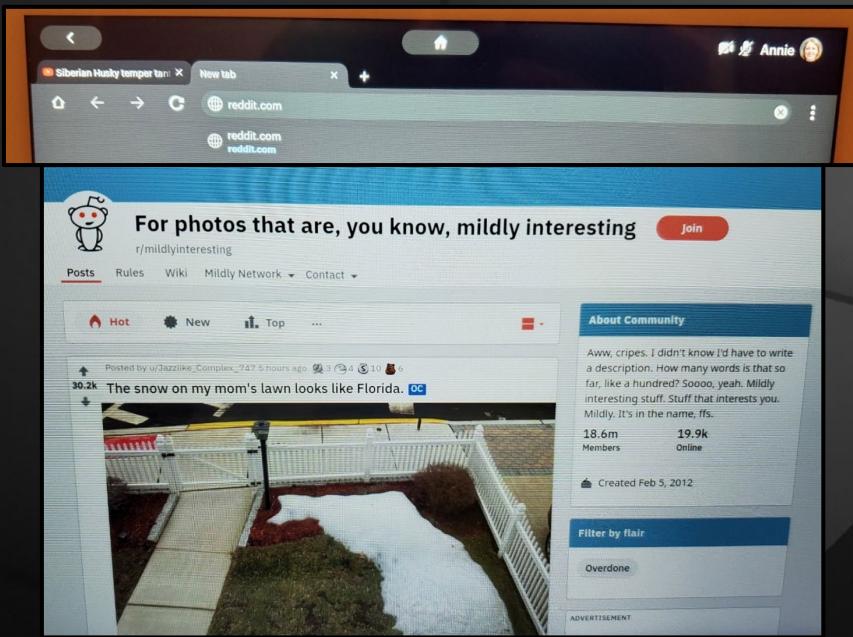
Google Takeout only shows App Install

```
[{"install": {  
    "doc": {  
        "documentType": "Android Apps",  
        "title": "Portal from Facebook"  
    },  
    "firstInstallationTime": "2021-02-24T00:41:59.292Z",  
    "deviceAttribute": {  
        "model": "moto e6 (XT2005DL)",  
        "carrier": "Verizon Wireless",  
        "manufacturer": "motorola",  
        "deviceDisplayName": "motorola moto e6 (XT2005DL)"  
    },  
    "lastUpdateTime": "2021-03-19T06:12:17.255Z"  
},  
{
```

404: Data Not Found



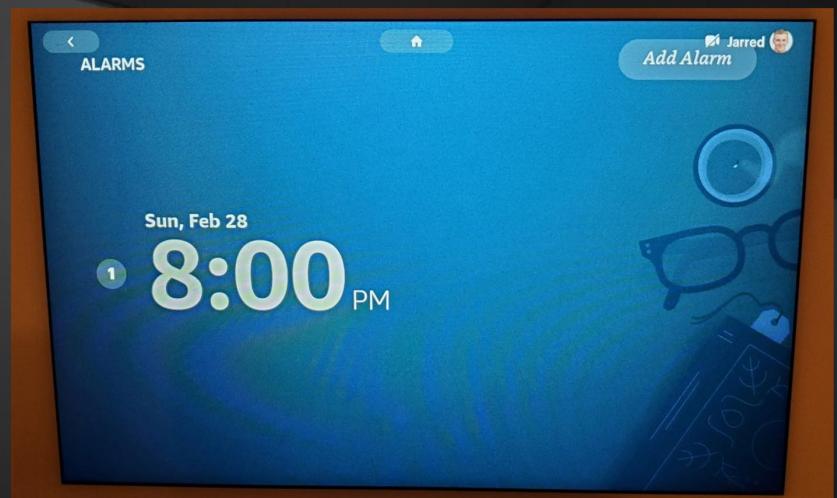
All data which should be stored locally.



Browsing History

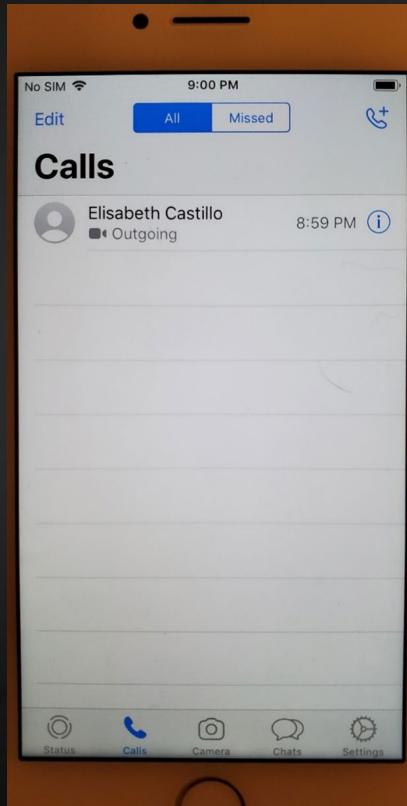


Notes



Alarms/Reminders

404: Data Not Found



Calls performed to WhatsApp contacts



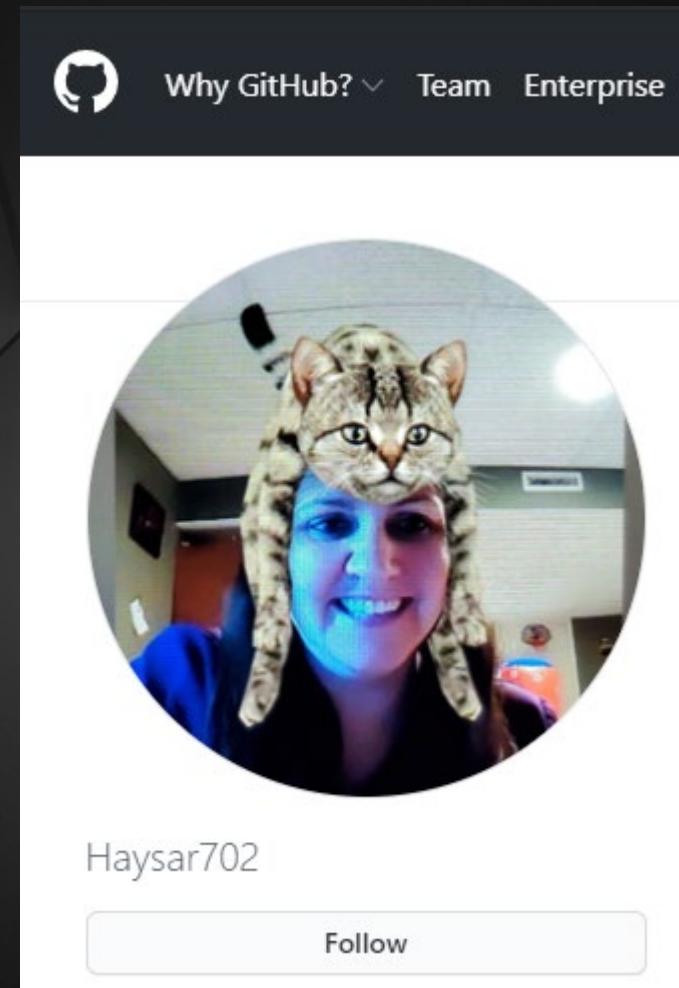
Activities performed during calls



Calls performed in the Portal companion app

Scripts

Check out Sarah's GitHub:
<https://github.com/haysar702>



Further Research

Communicate via USB/ADB

Recover data from chip

- 3rd party use at your own workplace



Questions?

- Nicole Odom  @N0D0M1
- Jessica Hyde  @B1N2H3X
- Sarah Hayes  @haysar702

