

# P3 Whatsapp

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**Abstract** - Whatsapp is the MIM (Mobile Instance Messaging) application. End to end encryption provided by Whatsapp. Here P3 is (Profile Photo Privacy). I performed an internet based survey using an Open-source google survey software and obtained responses. Nowadays WhatsApp using for many purposes like business source linked with family, relatives and friends. Whatsapp has many features and it's secure. Whatsapp is user-friendly mobile application. Whatsapp was developed by Brian Acton and Jan Koum in 2009. I found vulnerability in this application. Hackers can theft someone's identity using Whatsapp p3. As per the other research paper which I referred there is no doubt Whatsapp is secure but this vulnerability which I found this is also important as per youth security.

**Keywords** - Privacy, Security, video call, P3.

## I. INTRODUCTION

Whatsapp is one of the free application. It user-friendly, easy to use. In this service allow the sending of text messages and voice calls, as well as video calls, images and other media, documents, and user location. Here P3 is the (Profile Photo Privacy). Whatsapp application is used in a mobile device as well as desktop computers. To use Whatsapp application requires users to provide a mobile number. Initially, users could only communicate with others separately or in groups of distinct users. There are more than 600 million users today and nowadays there is no one who has not having Whatsapp application in their smartphones. Whatsapp is sold for 19 billion dollar to Facebook in February of 2014. Facebook wasn't the sole company that was curious about the service additionally Microsoft was interested to require over the service. On Whatsapp users can easily share text, pictures, documents etc. Popular networks embrace Facebook and LinkedIn, all of that maintain websites which function hubs facultative people's data sharing.

In distinction, the comparatively new WhatsApp application could be a smartphone application that enables folks to share data directly through their phones. Since in 2009, its growth has bit by bit magnified, and as of Gregorian calendar month 2016, it numbers over a billion cyclic active users. While several alternatives to WhatsApp are presently offered in several on-line application stores (e.g. BBM, WeChat ) these days WhatsApp is that the preferred electronic communication application with the most important name recognition far and away the largest user base and also the strongest company backing since its purchase by Facebook in 2014.

## II. LITERATURE REVIEW

Whatsapp offers the choice to cover our profile image from others. Whatsapp offers three choices a. everyone can see b. contacts only can see c. no one can see. If user set privacy to contacts solely then only the those that are in our contact list can read our profile image however if you update your Whatsapp in this you'll be able to see Whatsapp net permits to work out whoever folks not in users contact list still user can see profile picture. If you can see updated Whatsapp then WhatsApp Web allows us to view a user's profile image whether or not we have a tendency to don't seem to be on the contact list of that user. Suppose the user has set the P3 setting to "Contacts only," the profile picture can be viewed by out of contacts people as well. Hacker can theft users identity or hacker can misuse of profile picture.[5] If user can see WhatsApp status privacy there two option is available "My Contact Except" and "only share with contacts" these option will be provide for P3 settings, so user can restrict some contacts whatever user want. If this option include in profile P3 then profile picture should be safe. Attacks will possible using profile picture are Eavesdropping attack and identity spoofing attack. The survey results showed that self-disclosure, flow and social presence significantly affected user's satisfaction.

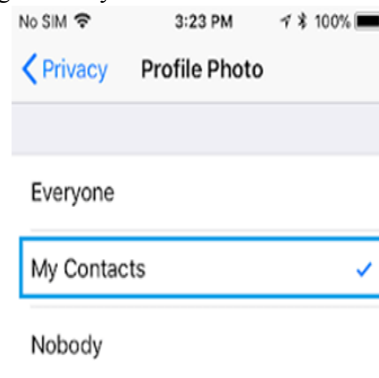


Figure 1: Profile Photo Privacy Setting



Figure 2: Status Privacy Setting

III. RESEARCH APPROACH

I used Google survey to check how many user think profile picture is safe on Whatsapp. It is open supply software package for conducting on-line survey. A type was developed with each close-ended and open terminated inquiries to assess the enumeration of users, and impact on social and personal lifetime of users and effect on social and private life of users. As per survey result 86.55% users think profile picture is not safe, 4.1% users think it is safe and 9.5% users think maybe as shown in fig below.

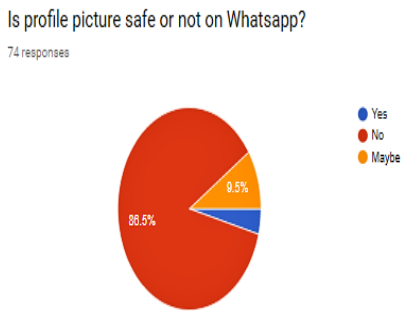


Figure 3: Participants Opinion about profile picture is safe or not on Whatsapp

IV. PROPOSE SOLUTION

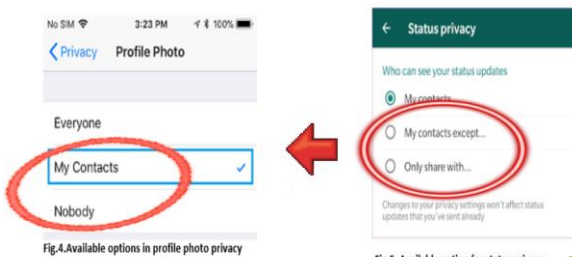


Fig.4.Available options in profile photo privacy

Fig.5. Available option for status privacy

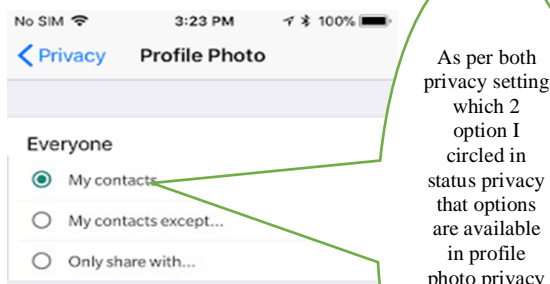


Figure 4: update in P3

As per both privacy setting which 2 option I circled in status privacy that options are available in profile photo privacy instead of “my contacts” and “Nobody” I mention below

As per my proposal you have seen in fig.4 and fig.5 shows P3 Whatsapp and status privacy option and in fig.6. I give the solution as per security based to more secure Whatsapp application. If Whatsapp offers that option which are I mention in fig. 6 then this application will be fully secure and eavesdropping and identity theft attacks are not possible.

V. RESULT AND DISCUSSION

A survey was conducted on actual users of smartphone Whatsapp messenger. The question was performed an internet based survey using open-source Google survey and obtained responses. If you can see in above fig. maximum users think Whatsapp profile picture is not safe. So as per security purpose WhatsApp has to be think about profile picture security. End to end encryption provided by whatsapp but when you think about profile picture that time is not safe.

VI. CONCLUSION

The survey for this study was restricted to a seventy four respondents in my contacts. There's a restricted literature review. As per my conclusion if any user will attempt to take a screenshot of someone's profile image the resultant screenshot are going to be show blank. Or embody this selection “My contact Except” and “Only share with” option in profile image privacy thus Whatsapp are often safer n safe for users.

WhatsApp has fashioned the way of belongingness, distance and closeness with friends and relatives. WhatsApp has become thus comfy associate degree application among children. Today WhatsApp is obtaining utilized by youth furthermore as older individuals for making, sharing and exchanging data.

VII. REFERENCES

- 1) [https://www.researchgate.net/publication/316892755\\_Survey\\_Analysis\\_on\\_the\\_usage\\_and\\_Impact\\_of\\_Whatsapp\\_Messenger](https://www.researchgate.net/publication/316892755_Survey_Analysis_on_the_usage_and_Impact_of_Whatsapp_Messenger)
- 2) <https://arxiv.org/pdf/1802.03393.pdf>
- 3) [http://www.adaptivecycle.nl/images/Mini-case\\_Whatsapp.pdf](http://www.adaptivecycle.nl/images/Mini-case_Whatsapp.pdf)
- 4) <https://www.whatsapp.com/security/>
- 5) <https://www.hacktrick.com/2015/02/multiple-vulnerabilities-found-in.html>
- 6) [http://www.ijhssi.org/papers/v5\(7\)/L0507071073.pdf](http://www.ijhssi.org/papers/v5(7)/L0507071073.pdf)
- 7) [https://www.researchgate.net/publication/312778290\\_WhatsApp\\_security\\_and\\_role\\_of\\_metadata\\_in\\_preserving\\_privacy](https://www.researchgate.net/publication/312778290_WhatsApp_security_and_role_of_metadata_in_preserving_privacy)
- 8) [https://thehackernews.com/2014/12/crash-your-friends-whatsapp-remotely\\_1.html](https://thehackernews.com/2014/12/crash-your-friends-whatsapp-remotely_1.html)
- 9) <https://ccm.net/faq/35515-whatsapp-messenger-choose-who-can-see-your-profile-picture>