

# Syria

	2016	2017		
<b>Internet Freedom Status</b>	<b>Not Free</b>	<b>Not Free</b>	<b>Population:</b>	<b>18.4 million</b>
Obstacles to Access (0-25)	24	23	<b>Internet Penetration 2016 (ITU):</b>	<b>31.9 percent</b>
Limits on Content (0-35)	26	26	<b>Social Media/ICT Apps Blocked:</b>	<b>No</b>
Violations of User Rights (0-40)	37	37	<b>Political/Social Content Blocked:</b>	<b>Yes</b>
<b>TOTAL* (0-100)</b>	<b>87</b>	<b>86</b>	<b>Bloggers/ICT Users Arrested:</b>	<b>Yes</b>
			<b>Press Freedom 2017 Status:</b>	<b>Not Free</b>

\* 0=most free, 100=least free

## Key Developments: June 2016 – May 2017

- Areas liberated from the so-called Islamic State (IS) are regaining internet access, although access in cities such as Raqqa and Deir al-Zor remained restricted at cybercafes (See **Availability and Ease of Access**).
- Although Syrian government forces retook Aleppo from opposition rebels and restored the city to the national network, residents have reported ongoing disruptions (See **Restrictions on Connectivity**).
- At least 15 netizens and citizen journalists remain imprisoned by the regime on charges related to their digital activism. It was recently confirmed that digital activist Bassel Khartabil, detained in 2012, died in government custody in 2015 (see **Prosecutions and Detentions for Online Activities**).
- Several citizen journalists and bloggers were killed while documenting human rights abuses by all sides of the conflict (see **Intimidation and Violence**).
- Hackers linked to Iran have stepped up cyberattacks against Syrian opposition groups in a bid to disrupt reporting on human rights violations (see **Technical Attacks**).

## Introduction

Internet freedom in Syria improved after mild improvements in internet access, although the country remained one of the most dangerous environments due to ongoing detentions and assassinations of citizen journalists.

Syrian cyberspace remains fraught with conflict, often mirroring the brutality of the war on the ground and its complex geopolitics. Citizen journalists were killed during air raids, regime opponents were tortured in state prisons, and the so-called Islamic State (IS) murdered individuals for chronicling the hardships of life under the religious extremists. Hackers linked to Russia, Iran, and the Syrian government conducted malware and spear-phishing attacks against human rights organizations and opposition groups.

Because of the war, Syria's telecommunications infrastructure is severely damaged and highly decentralized. In areas controlled by the regime, the state-owned service provider employs sophisticated technologies to filter political, social, and religious websites. Meanwhile, individuals in rebel-controlled areas often rely on Turkish mobile internet beamed in from across the border, or in many cases, expensive satellite connections. Authorities regularly shut down internet access to prevent the dissemination of information, particularly before and during military operations. Shelling and sabotage have led to the destruction of infrastructure, affecting internet and power connections in several provinces.

The internet has played a significant role in documenting popular protests against the Syrian regime and its heavy-handed response against civilians, as well as the brutality of violent extremists. Authorities prevented foreign media from accessing the country, prompting many ordinary Syrians to take up mobile phones and small cameras to cover the deteriorating situation and post videos of the conflict on social media. These citizen journalists have become vital in the quest to document flagrant human rights abuses by all parties to the conflict.

## Obstacles to Access

*The war has devastated telecommunications infrastructure and disconnected around two-thirds of the country from Syrian internet service providers (ISPs). As a result, internet access has become highly decentralized with some relying on microwave links from Turkish cities or pooled satellite connections serving cybercafes. Internet access is regularly shutdown in areas controlled by the regime and disparate rebel groups alike.*

## Availability and Ease of Access

Syria's telecommunications infrastructure is one of the least developed in the Middle East, with broadband connections among the most difficult and expensive to acquire.<sup>1</sup> This worsened after 2011, as inflation and electricity outages increased dramatically following public protests and the government's corresponding crackdown. Damage to the communications infrastructure is particularly bad in cities where the government is no longer in control, due to shelling by both the Syrian

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<sup>1</sup> Kyle Wansink, *Syria - Telecoms, Mobile, Broadband and Forecasts*, BuddeComm, accessed March 8, 2012, <http://bit.ly/1OdyCSD>

armed forces and opposition fighters. This has led to a decentralized telecommunications infrastructure, whereby each and every part of the country has a different internet gateway.

Key Access Indicators		
Internet penetration (ITU) <sup>a</sup>	2016	31.9%
	2015	30.0%
	2011	22.5%
Mobile penetration (ITU) <sup>b</sup>	2016	54%
	2015	62%
	2011	59%
Average connection speeds (Akamai) <sup>c</sup>	2017(Q1)	1.8 Mbps
	2016(Q1)	1.4 Mbps

<sup>a</sup> International Telecommunication Union, "Percentage of Individuals Using the Internet, 2000-2016," <http://bit.ly/1cblxxY>.

<sup>b</sup> International Telecommunication Union, "Mobile-Cellular Telephone Subscriptions, 2000-2016," <http://bit.ly/1cblxxY>.

<sup>c</sup> Akamai, "State of the Internet - Connectivity Report, Q1 2017," <https://goo.gl/TQH7L7>.

According to estimates by the International Telecommunication Union, 29.6 percent of Syrians had access to the internet at the end of 2016, up from 21 percent in 2010.<sup>2</sup> The estimated number of fixed broadband subscribers also increased, but remained low at just over 3.14 subscriptions per 100 inhabitants. The number of mobile phone subscriptions decreased slightly over the past year, with 64 subscriptions per 100 inhabitants.

The price, speed, and availability of internet access vary depending on the region of the country. According to a pricelist published by the Syrian Computer Society Network, the monthly cost for a 1 Mbps ADSL connection was SYP 2400 (approximately US\$5) as of May 2017,<sup>3</sup> in a country where monthly gross domestic product per capita was US\$274<sup>4</sup> in 2012 and has since dropped.<sup>5</sup> While the Syrian lira (SYP) has lost a large amount of its value, prices have not changed dramatically during the conflict.

Around two-thirds of the country is disconnected from Syrian ISP networks, instead relying on a WiMax or WiFi microwave links from Turkish cities<sup>6</sup> or satellite connections (VSAT).<sup>7</sup> The former is particularly prominent in Kurdish areas along the Turkish border, such as Qamishli, where Wi-Fi connections are around US\$50 per month. Cybercafes are reportedly widespread.<sup>8</sup> Other areas recently liberated from Islamic State (IS), such as al-Shadadi, have also seen cybercafes reopen.<sup>9</sup>

In areas controlled by IS, such as Deir al-Zor and Raqqa, internet access is subject to many regulations and often affected by military developments on the ground. For example, IS authorities reportedly banned the internet from the village of al-Boukamal in the province of Deir al-Zor in September

2 International Telecommunication Union, "Statistics," 2015, <http://www.itu.int/en/ITU-D/Statistics/Pages/stat/default.aspx>

3 Syrian Computer Society Network, "ADSL Services and price" [in Arabic], accessed May 17, 2017, <http://bit.ly/250BUqt>

4 World Bank Databank, "GDP per capita (current US\$)," 2008-12, accessed May 17, 2017, <http://bit.ly/1eRbn2E>

5 Democratic Arabic Center, "Reports: Syrian conflict losses of \$ 80 billion and 11 percent of the population were killed or injured," [Arabic] February 11, 2016, <http://democraticac.de/?p=27360>

6 "Northern Syria, Internet cafes are everywhere in the North, Chatting, Smoking and Porn," [in Arabic], *Hunasaotak*, <http://bit.ly/1Q4ielU>

7 "Internet through satellite and Turkish providers as an alternative of Al-Assad network in the countryside of Idlib," [in Arabic] *Orient News*, August 10, 2014, <http://bit.ly/1PEltt8>

8 Interview with the Amjad Othman, journalist from Qamishli city via Skype.

9 A Skype Interview with Syrian journalist, Jwan Ali, April 16, 2017.

2015 in preparation for a military operation against regime forces in a nearby village.<sup>10</sup> Due to the prohibitive cost of VSAT connections, businesses in IS-controlled areas have established cybercafes where users split the cost of satellite infrastructure and purchase separate Wi-Fi connectivity. Based on Skype interviews with Syrians living under IS-controlled areas, the cost of internet access inside the internet cafes is 100 SYP (US\$ 0.50) for 1 hour connection, while for smartphone users, 15 MB of data transactions costs 100 SYP.

In mid-2015, IS released a statement requiring these cybercafes to “remove Wi-Fi boosters in internet cafes as well as private wireless adapters, even for soldiers of the Islamic State.”<sup>11</sup> The move is an attempt to limit private internet access in Raqqa and Deir al-Zor to public locations<sup>12</sup> that can be policed by the extremists in order to restrict reporting by activists as well as GPS-tracking of militants using the services.<sup>13</sup> Licenses are only provided to “loyal” businesses and require cafe owners to restrict WiFi availability to the physical space of the cybercafé, to log all customers using their IDs, and to separate men from women.<sup>14</sup> IS has allowed only four cybercafes in Deir al-Zor city (one each in the neighborhoods of Hamidiyeh, al-Ommal, Ghassan Aboud, and al-Sheikh Yassin) and all are under heavy surveillance by authorities.<sup>15</sup> Recent airstrikes targeting IS militants have also damaged telecommunications infrastructure in IS-held areas.<sup>16</sup>

## Restrictions on Connectivity

The Syrian government has engaged in extensive and repeated internet shutdowns since 2011. Damage to telecommunications infrastructure disconnected the war-torn city of Aleppo from March to November 2015.<sup>17</sup>

Internet connections to Aleppo are now routed through Syrian networks, rather than Turkish networks. Researchers speculated the move reflected recent gains made by the Syrian army over rebel forces in the areas surrounding Aleppo, once Syria’s most populous city. Researchers noted the city was reconnected using a “high capacity microwave link to the coastal city of Latakia, Syria.”<sup>18</sup> However, users in Aleppo have suffered from connection interruptions and slow connectivity, likely due to limited bandwidth.<sup>19</sup>

In areas controlled by the Syrian government, the Syrian Telecommunications Establishment (STE) serves as both an internet service provider (ISP) and the telecommunications regulator, providing

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10 Zainah Alsamman, “ISIS Bans the Internet in al-Boukamal, Deir Ezzor,” SecDev Foundation, September 25, 2015, <https://secdev-foundation.org/isis-bans-the-internet-in-al-boukamal-deir-ezzor/>

11 Erika Solomon, “Isis to cut private internet access in parts of Syria,” *Financial Times*, July 20, 2015, <http://on.ft.com/1M4z2ff>

12 ISIS is allowing the Internet but under surveillance, (Arabic), Alrai media, May 22<sup>nd</sup>, 2016 <http://www.alraimedia.com/ar/article/others/2015/05/22/591978/nr/iraq>

13 “ISIL is shutting down Internet Cafes around Deir ez-Zor Airport,” [in Arabic] *Al-Arabiya*, December 8, 2014, <http://ara.tv/mhf43>

14 “The Islamic state to prevent Internet in Abu Kamal,” (Arabic), The Syrian Observatory for Human Rights, September 19, 2015, <http://www.syriahr.com/?p=136555>

15 Skype Call with Samer Al-Deri.

16 Firas Alhakar “Hello.. Al-Raqa is offline,” *Al-Akbar*, July 24, 2015, <https://al-akhbar.com/node/238429>

17 Doug Madory, “Internet Returns to Aleppo, Syria,” Dyn Research, November 11, 2015, <http://research.dyn.com/2015/11/internet-returns-to-aleppo-syria/>

18 Doug Madory, “War-torn Syrian city gets new fiber link,” Dyn Research, October 12, 2016, <http://research.dyn.com/2016/10/war-torn-syrian-city-gets-new-fiber-link/>

19 Aleppo News network, “Internet disconnection is deliberate, and these are the reasons”, May 1, 2017, <https://www.nfac-sy.net/news/10413>

the government with tight control over internet infrastructure.<sup>20</sup> In addition, private fixed-line and mobile ISPs are required to sign a memorandum of understanding to connect to the international internet via gateways controlled by the Syrian Information Organization (SIO).<sup>21</sup>

## ICT Market

As of 2012, some 14 ISPs operated in Syria. Independent VSAT connections are prohibited, although in reality they are heavily employed due to the damage that government ICT infrastructure has sustained as a result of the conflict.<sup>22</sup> ISPs and cybercafes must obtain approval from the STE and pass security vetting by the Ministry of Interior and other security services.<sup>23</sup> Moreover, cybercafe owners are required to monitor visitors and record their activities. There are two main mobile phone providers in Syria: Syriatel—owned by Rami Makhlouf, a cousin of President Bashar al-Assad—and MTN Syria, a subsidiary of the South African company.

## Regulatory Bodies

Syria's ICT market and internet policy is regulated by the SIO and the state-owned STE, which owns all fixed-line infrastructure. The STE is a government body established in 1975 as part of the Ministry of Telecommunications and Technology.<sup>24</sup> Domain name registration is handled by the Syrian Computer Society, which was once headed by Bashar al-Assad prior to his appointment as president in 2000.<sup>25</sup>

## Limits on Content

*The Syrian government engages in extensive filtering of websites related to politics, minorities, human rights, and foreign affairs. Self-censorship is highly prevalent, particularly in areas under government control. Despite these limitations, activists make use of communication apps to save lives in rebel-controlled areas and citizen journalists continue to make use of video-uploading sites and social networks to spread information about human rights abuses and the atrocities of war.*

## Blocking and Filtering

The blocking of websites related to government opposition, human rights groups, the Muslim Brotherhood, and activism on behalf of the Kurdish minority is very common.<sup>26</sup> A range of websites related to regional politics are also inaccessible, including the prominent London-based news

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20 Syrian Telecom, "Intelligent Network Project," [http://www.in-ste.gov.sy/inindex\\_en.html](http://www.in-ste.gov.sy/inindex_en.html)

21 Jaber Baker, "Internet in Syria: experimental goods and a field of a new control," White and Black Magazine, posted on Marmarita website, August 10, 2008, <http://www.dai3tna.com/nuke/modules.php?name=News&file=article&sid=6019>. (no longer available)

22 "Online Syria, Offline Syrians," *One Social Network with a Rebellious Message*, The Initiative or an Open Arab Internet, accessed March 8, 2012, <http://bit.ly/1NSCAHQ>

23 Ayham Saleh, "Internet, Media and Future in Syria" [in Arabic], The Syrian Center for Media and Free Expression, November 14, 2006, <http://bit.ly/1hfdwWl>

24 Ministry of Communication and Technology, "Overview," [in Arabic], <http://www.moct.gov.sy/moct/?q=ar/node/21>

25 Sean Gallagher, "Network Solutions seizes over 700 domains registered to Syrians," *Ars Technica*, May 8, 2013, <http://arstechnica.com/tech-policy/2013/05/network-solutions-seized-over-700-domains-registered-to-syrians/>

26 Reporters Without Borders, *Internet Enemies*, March 2011, <http://bit.ly/eLXGvi>

outlets Al-Quds al-Arabi and Asharq al-Awsat, as well as several Lebanese online newspapers and other websites campaigning to end Syrian influence in Lebanon. Access to the entire Israeli top-level domain “.il” is also restricted. However, the websites of most international news sources and human rights groups have remained accessible.

Censorship is implemented by the STE and private ISPs with the use of various commercially available software programs. Independent reports in recent years pointed to the use of ThunderCache software, which is capable of “monitoring and controlling a user’s dynamic web-based activities as well as conducting deep packet inspection.”<sup>27</sup> In 2011, evidence emerged that the Syrian authorities were also using technology provided by the Italian company Area SpA to improve their censorship and surveillance abilities. The contract with Area SpA included software and hardware manufactured by companies such as Blue Coat Systems, NetApp, and Sophos. Blue Coat had reportedly sold 14 devices to an intermediary in Dubai which then sent them to Area SpA, ostensibly with Blue Coat believing that the equipment would be given to the Iraqi government; however, logs obtained by the hacktivist group Telecomix in August 2011 revealed evidence of their use in Syria instead.<sup>28</sup> In October of that year, Blue Coat acknowledged that 13 of the 14 devices had been redirected to the Syrian government, an inadvertent violation of a U.S. trade embargo, and that the company was cooperating with the relevant investigations.<sup>29</sup> Analysis of the exposed Blue Coat logs revealed that censorship and surveillance were particularly focused on social-networking and video-sharing websites.<sup>30</sup> The Wall Street Journal identified efforts to block or monitor tens of thousands of opposition websites or online forums covering the uprising. Out of a sample of 2,500 attempts to visit Facebook, the logs revealed that three-fifths were blocked and two-fifths were permitted but recorded.<sup>31</sup>

The Syrian government also engages in filtering SMS messages. Beginning in February 2011, such censorship was periodically reported around dates of planned protests. In February 2012, Bloomberg reported in a series of interviews and leaked documents that a special government unit known as Branch 225 had ordered Syriatel and MTN Syria to block text messages containing key words like “revolution” or “demonstration.” The providers reportedly implemented the directives with the help of technology purchased from two separate Irish firms several years earlier for the alleged purpose of restricting spam.<sup>32</sup>

The government continues to block circumvention tools, internet security software, and applications that enable anonymous communications. By enabling deep packet inspection (DPI) filtering on the Syrian network, authorities were able to block secure communications tools such as OpenVPN, Later 2 Tunneling Protocol (L2TP), and Internet Protocol Security (IPsec) in August 2011.<sup>33</sup> Websites used to mobilize people to protest or resist the regime, including pages linked to the network of Local Coordination Committees (LCCs)—groups that have formed since the revolution to organize the

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27 Reporters Without Borders, “Syria,” *Enemies of the Internet: Countries under surveillance*, March 12, 2010, <http://bit.ly/1OCZ0cS>, and Platinum, Inc., “ThunderCache Overview,” accessed August 14, 2012, <http://www.platinum.sy/index.php?m=91>

28 Andy Greenberg, “Meet Telecomix, The Hackers Bent on Exposing Those Who Censor and Surveil The Internet,” *Forbes*, December 26, 2011, <http://onforb.es/1Bu1tQx>

29 Blue Coat, “Update on Blue Coat Devices in Syria,” news release, December 15, 2011, <http://bit.ly/1FzFd8X>

30 “Blue Coat device logs indicate the levels of censorship in Syria,” *Arturo Filasto*, accessed August 14, 2012, <http://bit.ly/1LZDZJ3>

31 Jennifer Valentino-Devries, Paul Sonne, and Nour Malas, “U.S. Firm Acknowledges Syria Uses Its Gear to Block Web,” *Wall Street Journal*, October 29, 2011, <http://on.wsj.com/t6YI3W>

32 Ben Elgin and Vernon Silver, “Syria Disrupts Text Messages of Protesters With Dublin-Made Equipment,” *BloombergBusiness*, February 14, 2012, <http://bloom.bg/1i0TOEU>

33 Dlashad Othman, “Bypassing censorship by using obfsproxy and openVPN, SSH Tunnel,” *Dlashad*, June 22, 2013, <http://bit.ly/1KH3KjZ>

opposition—continue to be blocked.<sup>34</sup> Websites that document human rights violations, such as the Violations Documentation Center, remain blocked,<sup>35</sup> as does the New Syrian, a website that brings prominent Syrian authors to share their vision about the country.<sup>36</sup> Authorities have repeatedly blocked the website and key search terms of SourialLi, an internet radio station started by a group of pluralistic young Syrians.<sup>37</sup>

Facebook remains accessible in Syria after the government lifted a four-year block on the social-networking site in February 2011. The video-sharing website YouTube was also unblocked. Some activists suspected that the regime unblocked the sites to track citizens' online activities and identities. As of 2016, both were within the top-three most visited websites in the country.<sup>38</sup> Other social media platforms like Twitter are freely available, although they are not as popular and do not figure within the top 25 most visited sites in the country.

The Voice-over-Internet-Protocol (VoIP) service Skype has suffered frequent disruptions, either due to low speeds or intermittent blocking by the authorities. In February 2012, the government also began restricting access to certain applications for mobile phone devices that activists had been using to circumvent other blocks. Anti-virus software and updates to operating systems remain blocked due to U.S. sanctions, to the dismay of many U.S.-based activists.<sup>39</sup>

Decisions surrounding online censorship lack transparency and ISPs do not publicize the details of how blocking is implemented or which websites are banned, though government officials have publicly admitted engaging in internet censorship. When a user seeks to access a blocked website, an error message appears implying a technical problem rather than deliberate government restriction. Decisions on which websites or keywords should be censored are made by parts of the security apparatus, including Branch 225, or by the executive branch.

## Content Removal

According to digital security organization SecDev, dozens of opposition pages, media centers, and independent NGOs have been closed by Facebook.<sup>40</sup> These include numerous pages of local coordination committees (LCCs) and the London-based Syrian Network for Human Rights. Activists believe that Facebook users sympathetic to President Assad may be reporting the pages en masse as violating user guidelines, thereby provoking Facebook into action. Razan Zaitouneh of the Violations Documentation Center shared a letter urging Facebook to keep the sites open, stating that "Facebook pages are the only outlet that allows Syrians and media activists to convey the events and atrocities to the world." Representatives from Facebook have cited the difficulties in discerning between objective reporting and propaganda, particularly since many armed extremists have taken to using the site.

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34 Local Coordination Committees, "Home," <http://www.lccsyria.org/en/>

35 "Leaked list of all blocked websites in Syria," Arab Crunch, May 19, 2013, <http://bit.ly/1KGFPBm>

36 "New Syrian," <https://newsyrian.net>

37 Syria Untold, "Syrian Creativity: Radio SourialLi Broadcasts over the Internet," *Global Voices*, June 7, 2013, <http://bit.ly/1EQI2ZS>

38 Alexa, "Top Sites in SY," accessed October 25, 2016, <http://www.alexa.com/topsites/countries/SY>

39 Mike Rispoli, "Access joins open letter to tech industry addressing overcompliance with U.S. sanctions," Access, June 28, 2012, <http://bit.ly/1i0XdDM>

40 Michael Pizzi, "The Syrian Opposition Is Disappearing From Facebook," *The Atlantic*, February 4, 2014, <http://theatlantic.com/1aojZAO>

Syrian activists have also lamented<sup>41</sup> that numerous videos documenting war crimes and human rights abuses by Islamist militants have been removed from platforms such as Facebook and YouTube as part of their crackdown on extremist content.<sup>42</sup>

## Media, Diversity, and Content Manipulation

With the onset of the civil war, citizen journalism and social media provided the Syrian public with an alternative view of domestic events,<sup>43</sup> particularly as state media outlets have lost their credibility among many.<sup>44</sup> In an environment of extreme violence and arbitrary “red lines,” self-censorship is widespread online. Sensitive topics include criticism of President Assad, his late father, the military, or the ruling Baath party. Publicizing problems faced by religious and ethnic minorities or corruption allegations related to the ruling family, such as those of Assad’s cousin Rami Makhlouf, are also off limits. Most Syrian users are careful not only to avoid such sensitive topics when writing online, but also to avoid visiting blocked websites.<sup>45</sup> However, the period of May 2012 to April 2013 witnessed a large number of local Syrian users expressing opposition to Assad, his father, Makhlouf, the Baath party, and certain ethnic or sectarian groups.<sup>46</sup> In 2014, users living in areas under control of IS or other extremist groups have stepped up their self-censorship in order to avoid criticizing the militants or Islam in general.

Pro-regime forces have employed a range of tactics to manipulate online content and discredit news reports or those posting them, though it is often difficult to directly link those who are carrying out these activities with the government. Most notable has been the emergence of the Syrian Electronic Army (SEA), a progovernment hacktivist group that targets the websites of opposition forces, human rights websites, and even Western media outlets (see “Technical Attacks”). For news websites and other online forums based in the country, it is common for writers to receive phone calls from government officials offering “directions” on how to cover particular events.<sup>47</sup> The Syrian government also pursues a policy of supporting and promoting websites that publish progovernment materials in an attempt to popularize the state’s version of events. These sites typically cite the reporting of the official state news agency SANA, with the same exact wording often evident across multiple websites. Since early 2011, this approach has also been used to promote the government’s perspective about the uprising and subsequent military campaign.<sup>48</sup> Interestingly, in 2012, the progovernment website Aksalser changed its stance to support the opposition and was subsequently blocked by the government.<sup>49</sup>

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41 Skype Call with Hamza Al-Furati, Al-hal news (<https://7al.net>).

42 The Guardian, “Facebook and YouTube use automation to remove extremist videos” June, 2016, <https://www.theguardian.com/technology/2016/jun/25/extremist-videos-isis-youtube-facebook-automated-removal>.

43 Amr Alhamad, “Holding on to Seafoam: Insights on the Reality of Radio and Web Publishing in Syria” Weedoo, November, 2016, <https://weedoo.tech/our-studies-en/holding-on-to-seafoam-insights-on-the-reality-of-radio-and-web-publishing-in-syria/>.

44 Nasir Al-Sahli, “The Schizophrenia of the Syrian media ‘Terrorists are bombing Aleppo’ ” Alaraby, May 4, 2016, <http://bit.ly/2iT2L9q>, and Hanin Al-Nukri, Enabbaladi “What changed in the Syrian government media outlets after seven years?” March 19, 2016, <https://www.enabbaladi.net/archives/137768>

45 Email communication from a Syrian blogger. Name was hidden.

46 Interview with a Syrian activist, November 2012, Damascus, November 2012.

47 Guy Taylor, “After the Damascus Spring: Syrians search for freedom online,” *Reason*, February 2007, <http://theatlantic.com/1aojZAO>

48 Guy Taylor, “After the Damascus Spring: Syrians search for freedom online,” *Reason*, February 2007, <http://theatlantic.com/1aojZAO>

49 The Syrian “Aksalser website with the revolution,” [in Arabic] *the-syrian*, August 28, 2012, <http://the-syrian.com/archives/86170>.

U.S. sanctions have resulted in the blocking of paid online services, making it difficult for Syrians to purchase a domain or host their websites in the U.S. Restrictions on importing funds into Syria have had a significant impact on the ability to publish content. For instance, the Syrian magazine Syrian Oxygen was unable to obtain SSL certificates for their website from U.S. providers, apparently because the domain syrianoxygen.com has the word Syria in it.

## Digital Activism

Online tools have proven crucial for Syrians inside and outside the country seeking to document human rights abuses, campaign for the release of imprisoned activists, and disseminate news from the front lines of the conflict. Communication apps have become particularly important in saving lives during the conflict. A WhatsApp group called “The Monitors” was created by individuals based in regime-controlled areas to warn individuals living in rebel-controlled areas of impending Syrian and Russian air raids.<sup>50</sup> The U.S.-based Syrian American Medical Society has used WhatsApp for telemedicine, in one instance guiding a veterinarian who delivered twin babies by caesarean section in the besieged town of Madaya.<sup>51</sup>

Syrians are very active on Facebook, using it as a platform to share news, discuss events, release statements, and coordinate both online and offline activities.<sup>52</sup> A Facebook petition for the release of Youssef Abdelke, initiated by a group of Syrian intellectuals and artists, was signed by over 2,500 users.<sup>53</sup> Abdelke, an illustrator and painter who has often expressed political dissent through his art, was arrested in July 2013 after he signed a declaration, posted online, which called for a democratic transition and the stepping down of President Assad.<sup>54</sup> He was released one month later.<sup>55</sup>

In addition, one observer has called the conflict in Syria the first “YouTube War” due to the extraordinarily high coverage of human rights violations, military battles, and post-conflict devastation that is contained in videos posted to the site.<sup>56</sup> Indeed, as the Syrian government shifted to the use of heavy arms and missiles against opposition fighters, the role of citizen journalists has shifted from live event coverage to documenting the bloody aftermath of an attack. Although many obstacles stand in the way of media coverage, citizen journalists have designed techniques to ensure media coverage of remote and conflict areas. “Local Media Offices” ensure that local journalists cover limited geographic areas, and then use a social network as a platform to collect, verify, and publish news stories. Hundreds of thousands of videos have been posted to YouTube by citizen journalists, rebel groups, and civil society groups, mostly documenting attacks. A Syrian group categorizing YouTube videos and sharing them via the platform OnSyria had posted almost 200,000 videos in 2013.<sup>57</sup>

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50 Maya Gebeily, “Secret Syria network warns of air raids over WhatsApp,” *The Times of Israel*, January 21, 2016, <http://www.timesofisrael.com/secret-syria-network-warns-of-air-raids-over-whatsapp/>.

51 Avi Asher-Schapiro, “The Virtual Surgeons of Syria,” *The Atlantic*, August 24, 2016, <http://www.theatlantic.com/international/archive/2016/08/syria-madaya-doctors-whatsapp-facebook-surgery-assad/496958/>.

52 Judith Dublin, “Syrian Fight Fire with Facebook,” *Vocativ*, September 23, 2013, <http://voc.tv/1UJqclP>.

53 Clara Olshansky, “The Web Petitions to Free Syrian Artist Youssef Abdelke,” *Artcity*, August 1, 2013, <http://bit.ly/1VQezSS>

54 “Déclaration pour Syrie démocratique” [Declaration for a Democratic Syria], *Babelmed*, accessed March 14, 2014, <http://bit.ly/1izKKHU>

55 Khalil Sweileh and Omar al-Sheikh, “Syria: Youssef Abdelke Free, Resolved to Stay in Damascus,” *Al-Akhbar*, August 23, 2013, <http://bit.ly/1XQaLmi>

56 Christophe Koettl, “The YouTube War: Citizen Videos Revolutionize Human Rights Monitoring in Syria,” *Mediashift* (blog), PBS, February 18, 2014, <http://bit.ly/1Nkfnw9>

57 The platform, <http://onsyria.org/>, is now offline and the related Facebook page has not been updated since 2013: Onsyria, Facebook Page, <http://on.fb.me/1GnVymR>

## Violations of User Rights

*Syria remains one of the most dangerous places to use the internet in the world. Citizen journalists, bloggers, and activists are detained and often tortured by both government forces and, increasingly, fighters linked to extremist groups like the so-called Islamic State (IS). Several netizens were killed during the coverage period and cyberattacks against the opposition remain prevalent from a variety of hackers linked to the governments of Russia, Iran, and Syria.*

### Legal Environment

Laws such as the penal code, the 1963 State of Emergency Law, and the 2001 Press Law are used to control traditional media and arrest journalists or internet users based on vaguely worded terms such as threatening “national unity” or “publishing false news that may weaken national sentiment.”<sup>58</sup> Defamation offenses are punishable by up to one year in prison if comments target the president and up to six months in prison for libel against other government officials, including judges, the military, or civil servants.<sup>59</sup> In addition, Syria’s cybercrime law allows prison sentences of up to three years and fines of up to SYP 250,000 (US\$ 1,500) for anyone who incites or promotes crime through computer networks.<sup>60</sup> The judiciary lacks independence and its decisions are often arbitrary. Some civilians have been tried before military courts.

### Prosecutions and Detentions for Online Activities

Since antigovernment protests broke out in February 2011, the authorities have detained hundreds of internet users, including several well-known bloggers and citizen journalists. While it is very difficult to obtain information on recent arrests, at least 15 netizens remain in prison according to Reporters Without Borders.<sup>61</sup> Bassel Khartabil, an open source activist and recipient of the 2013 Index on Censorship Digital Freedom Award, was detained by the authorities in March 2012 and subsequently executed (see “Intimidation and Violence”).<sup>62</sup>

Human rights activists who work online are also targeted by the government and the rebels. Four members of the Violations Documentation Center (VDC) were kidnapped by an unknown group from a rebel-controlled area in December 2013.<sup>63</sup> Authorities raided the offices of the Syrian Center for Media and Freedom of Expression (SCM) in February 2012, arresting 14 employees.<sup>64</sup> One SCM member and civil rights blogger, Razan Ghazzawi,<sup>65</sup> was detained for 22 days.<sup>66</sup> Three others remain

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58 Syrian Penal Code, art. 285, 286, 287.

59 Syrian Penal Code, art. 378.

60 Global Resource and Information Directory, “Legislation,” in “Syria,” <http://www.fosigrid.org/middle-east/syria>

61 See Reporters Without Borders, “Violations of Press Freedom Barometer,” 2017, [https://rsf.org/en/barometer?year=2017&type\\_id=233#list-barometre](https://rsf.org/en/barometer?year=2017&type_id=233#list-barometre)

62 “Renewed calls for Bassel Khartabil’s release on 4<sup>th</sup> anniversary of detention,” Reporters Without Borders, March 17, 2016, <https://rsf.org/en/news/renewed-calls-bassel-khartabils-release-4th-anniversary-detention>

63 Hania Mourtada, “She Was My Mandela’ – Famous Syrian Activist Gets Abducted,” *Time*, December 11, 2013, <http://ti.me/1KcXrTc>

64 Maha Assabalani, “My colleagues are in prison for fighting for free expression,” UN CUT - Index on Censorship, May 11, 2012, <http://bit.ly/1EYHMX9>

65 Jared Malsin, “Portrait of an Activist: Razan Ghazzawi, the Syrian Blogger Turned Exile,” *Time*, April 2, 2013, <http://ti.me/1Q46vKj>

66 An interview with Syrian blogger, February 2013, Skype.

in prison and face up to 15 years for “publicizing terrorist acts” due to their role in documenting human rights violations by the Syrian regime.<sup>67</sup> The organization’s founder and director, Mazen Darwish, was reportedly released in August 2015 after three years in pretrial detention and recently moved to Germany.<sup>68</sup>

## Surveillance, Privacy, and Anonymity

Surveillance is rampant on Syrian internet service providers, which are tightly aligned with government security forces. Activists and bloggers released from custody report being pressured by security agents to provide the passwords of their Facebook, Gmail, Skype, and other online accounts.<sup>69</sup> Meanwhile, in IS-controlled territory, there are reports that militants have conducted unannounced raids at cybercafes to monitor customers’ browsing history and social media accounts.<sup>70</sup>

The Law for the Regulation of Network Communication against Cyber Crime, passed in February 2012, requires websites to clearly publish the names and details of the owners and administrators.<sup>71</sup> The owner of a website or online platform is also required “to save a copy of their content and traffic data to allow verification of the identity of persons who contribute content on the network” for a period of time to be determined by the government.<sup>72</sup> Failure to comply may cause the website to be blocked and is punishable by a fine of SYP 100,000 to 500,000 (US\$1,700 to \$8,600). If the violation is found to have been deliberate, the website owner or administrator may face punishment of three months to two years imprisonment as well as a fine of SYP 200,000 to 1 million (US\$1,500 to \$7,500).<sup>73</sup>

In early November 2011, Bloomberg reported that the Syrian government had contracted Area SpA in 2009 to equip them with an upgraded system that would enable interception, scanning, and cataloging of all email, internet, and mobile phone communication flowing in and out of the country. According to the report, throughout 2011, employees of Area SpA had visited Syria and began setting up the system to monitor user communications in near real-time, alongside graphics mapping users’ contacts.<sup>74</sup> The exposé sparked protests in Italy and, a few weeks after the revelations, Area SpA announced that it would not be completing the project.<sup>75</sup> No update is available on the project’s status or whether any of the equipment is now operational.

One indication that the Syrian authorities were potentially seeking an alternative to the incomplete Italian-made surveillance system were reports of sophisticated phishing and malware attacks targeting online activists that emerged in February 2012.<sup>76</sup> The U.S.-based Electronic Frontier Foundation (EFF) reported that malware called “Darkcomet RAT” (Remote Access Tool) and “Xtreme RAT” had

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67 Sara Yasin, “Syrian free speech advocates face terror charges,” Index on Censorship, May 17, 2013, <http://bit.ly/1VQg2IL>.

68 Prominent Syrian activist Mazen Darwish freed” SKeyes, August 10, 2015, <http://bit.ly/1GgvGK5>.

69 Interviews with released bloggers, names were hidden.

70 Interview with Abu Ibrahim Raqqawi of Raqqa Is Being Slaughtered Silently, Skype.

71 “Law of the rulers to communicate on the network and the fight against cyber crime” art. 5-12. Informal English translation: <https://telecomix.ceops.eu/material/testimonials/2012-02-08-Assad-new-law-on-Internet-regulation.html>.

72 “Law of the rulers to communicate on the network and the fight against cyber crime” art. art. 2.

73 “Law of the rulers to communicate on the network and the fight against cyber crime” art. art. 8.

74 Ben Elgin and Vernon Silver, “Syria Crackdown Gets Italy Firm’s Aid With U.S.-Europe Spy Gear,” *Bloomberg Business*, November 3, 2011, <http://bloom.bg/1VQij6R>.

75 Vernon Silver, “Italian Firm Said Exits Syrian Monitoring Project, Repubblica Says,” *Bloomberg Business*, November 28, 2011, <http://bloom.bg/1igDnoL>.

76 Ben Brumfield, “Computer spyware is newest weapon in Syrian conflict,” CNN, February 17, 2012, <http://cnn.it/1LZPQXn>

been found on activists' computers and were capable of capturing webcam activity, logging key-strokes, stealing passwords, and more. Both applications sent the data back to the same IP address in Syria and were circulated via email and instant messaging programs.<sup>77</sup> Later, EFF reported the appearance of a fake YouTube channel carrying Syrian opposition videos that requested users' login information and prompted them to download an update to Adobe Flash, which was in fact a malware program that enabled data to be stolen from their computer. Upon its discovery, the fake site was taken down.<sup>78</sup> Due to the prevailing need for circumvention and encryption tools among activists and other opposition members, Syrian authorities have developed fake Skype encryption tools and a fake VPN application, both containing harmful Trojans.<sup>79</sup>

A report from Kaspersky Labs, published in August 2014, revealed that some 10,000 victims' computers had been infected with RATs in Syria, as well as in other Middle Eastern countries and the United States.<sup>80</sup> The attackers sent messages via Skype, Facebook, and YouTube to dupe victims into downloading surveillance malware. One file was disguised as a spreadsheet listing names of activists and "wanted" individuals.

Anonymous communication is possible online but is increasingly restricted. Registration is required to purchase a cell phone, though over the past years, activists have begun using the SIM cards of friends and colleagues killed in clashes with security forces in order to shield their identities. Cell phones from neighboring countries like Turkey and Lebanon have been widely used since 2012, notably by Free Syrian Army fighters and, increasingly, civilians.

## Intimidation and Violence

According to Reporters Without Borders, at least 10 citizen journalists were killed during the coverage period. Three journalists working with the opposition-affiliated Syrian Media Organization (SMO), which publishes many of its reports online, were also killed in 2017.<sup>81</sup> Mohamed Abadzied, also known as George Samara, was killed during an airstrike by the Russian and Syrian military in the city of Daraa. Shortly before his death, Abadzied had posted a live video of the airstrike on his Facebook page.<sup>82</sup>

Once in custody, citizen journalists, bloggers, and other detainees reportedly suffered severe torture at the hands of government authorities. In August 2017, it was confirmed that digital activist Bassel Khartabil Safadi was executed by the regime's security forces in October 2015. He had been detained in March 2012 for his democratic activism.<sup>83</sup> In September 2015, it was confirmed that al-Fida newspaper's cartoonist Akram Raslan, who had shared antigovernment cartoons on Arabic news

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77 Eva Galperin and Morgan Marquis-Boire, "How to Find and Protect Yourself Against the Pro-Syrian-Government Malware on Your Computer," Electronic Frontier Foundation, March 5, 2012, <http://bit.ly/xsbmXy>

78 Eva Galperin and Morgan Marquis-Boire, "Fake YouTube Site Targets Syrian Activists With Malware," Electronic Frontier Foundation, March 15, 2012, <http://bit.ly/1XQhHzX>

79 "Syrian Malware" Up-to-date website collecting the malware <http://syrianmalware.com/>

80 Kaspersky Lab Global Research and Analysis Team, *Syrian Malware, the evolving threat*, August 2014, <http://bit.ly/1pCJ0gK>

81 See Reporters Without Borders, "Violations of Press Freedom Barometer," for 2016 and 2017, [https://rsf.org/en/barometer?year=2017&type\\_id=233#list-barometre](https://rsf.org/en/barometer?year=2017&type_id=233#list-barometre)

82 Committee to Protect Journalists, "Syrian journalist killed by airstrike in Daraa," March 13, 2017, <https://cpj.org/2017/03/syrian-journalist-killed-by-an-airstrike-in-daraa.php>

83 Liz Sly, "One of Syria's best-known democracy activists has been executed," *Washington Post*, August 2, 2017, [https://www.washingtonpost.com/world/middle\\_east/one-of-syrias-best-known-democracy-activists-has-been-executed/2017/08/02/483f4ca0-778a-11e7-8c17-533c52b2f014\\_story.html](https://www.washingtonpost.com/world/middle_east/one-of-syrias-best-known-democracy-activists-has-been-executed/2017/08/02/483f4ca0-778a-11e7-8c17-533c52b2f014_story.html)

sites and social media, had died in state custody in 2013.<sup>84</sup> He had been arrested in October 2012 and it is believed he was tortured to death.<sup>85</sup>

Separately, in a video recording published by IS on June 26, 2016, five journalists—many of them whose work was primarily online—were brutally murdered. In at least two cases, IS militants had rigged the individuals' computers or cameras with explosives.<sup>86</sup> Citizen journalists have also been targeted by IS militants while in Turkey. Ibrahim Abdul Kader of the human rights organization Raqqa is Being Slaughtered Silently (RBSS) was killed by IS militants in the city of Urfa, Turkey along with his friend Fares Hammadi in October 2015.<sup>87</sup> Naji Jaraf, editor-in-chief of the opposition Hentah Magazine and an activist with RBSS, was shot and killed in the Turkish city of Gaziantep in December 2015.<sup>88</sup> Hundreds of activists have gone into hiding or fled the country, fearing that arrest may not only mean prison, but also death under torture.<sup>89</sup> Blogger Assad Hanna left Syria following online threats stemming from his criticism of the regime, but was badly injured by knife-wielding assailants at his apartment in Turkey in April 2015.<sup>90</sup>

In a move some observers called unprecedented, IS executed a female journalist in September 2015. Ruqia Hassan, also known as Nissan Ibrahim, was blogging about daily life in the city of Raqqa.<sup>91</sup> She was accused of being a spy for the Free Syrian Army. Shortly before her death, she reportedly complained of death threats stemming from IS. International journalists, including those whose work is mainly featured online, have also been killed by Syrian militant groups in previous years.<sup>92</sup>

## Technical Attacks

While the Syrian Electronic Army (SEA) pioneered technical attacks against the Syrian opposition, numerous hacker groups linked to Hezbollah, IS, Russia, and Iran have developed cyber operations. Citizen Lab published new research on Group 5, a new hacker collective noted for its use of "Iranian Persian dialect tools and Iranian hosting companies[.]"<sup>93</sup> Hackers established websites with names AssadCrimes as part of more elaborate social-engineering schemes.<sup>94</sup> The site contained articles lifted from a Syrian opposition blog and was falsely registered under the name of Nour al-Ameer, a

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84 "Well-known Syrian cartoonist died in detention after being tortured," *Reporters Without Borders*, September 22, 2015, <https://rsf.org/en/news/well-known-syrian-cartoonist-died-detention-after-being-tortured>

85 Ibrahim Naffee, "Cartoonist Raslan arrested in Syria," *Arab News*, October 16, 2012, <http://www.arabnews.com/cartoonist-raslan-arrested-syria>

86 Enab Baladi Online, "ISIS Executes Five Journalists in Deir-ez-Zor," *The Syrian Observer*, June 27, 2016, [http://syrianobserver.com/EN/News/31250/ISIS\\_Executes\\_Five\\_Journalists\\_Deir\\_Zor](http://syrianobserver.com/EN/News/31250/ISIS_Executes_Five_Journalists_Deir_Zor)

87 Lizzie Dearden, "Isis beheads 'Raqqa is Being Slaughtered Silently' activist and friend in Turkey," *Independent*, October 30, 2015, <http://ind.pn/1Wm9dAh>

88 AP, "Reporters Without Borders urges Turkey to protect exiled Syrian journalists," *US News and World Report*, December 29, 2015, <http://www.usnews.com/news/world/articles/2015-12-29/journalism-group-calls-on-turkey-to-protect-syrian-reporters>.

89 Interviews with two photographers who have taken refuge in Turkey, December 2011.

90 Amira al Hussaini, "Syrian Blogger Stabbed in His Istanbul Home After Receiving Threats Online," *Global Voices Advocacy*, April 21, 2015, <http://bit.ly/1jS03fb>.

91 Aisha Gani and Kareem Shaheen, "Journalist Ruqia Hassan murdered by Isis after writing on life in Raqqa," *The Guardian*, January 5, 2016, <http://bit.ly/1O8Gqbh>.

92 See Committee to Protect Journalists, "James Foley," *Journalists Killed/Syria*, 2014, <https://cpj.org/killed/2014/james-foley.php>, Committee to Protect Journalists, "Steven Sotloff," *Journalists Killed/Syria*, 2014, <https://cpj.org/killed/2014/steven-sotloff.php>, and Committee to Protect Journalists, "Kenji Goto," *Journalists Killed/Syria*, 2015, <https://cpj.org/killed/2015/kenji-goto.php>; I-fan Lin, "Hate Is Not What Humans Should Do: Slain Journalist Kenji Goto's Words Live On Online," *Global Voices*, February 7, 2015, <http://bit.ly/1MyBl1>.

93 "Group5: Syria and the Iranian Connection" citizenlab, August 2, 2016 <https://citizenlab.org/2016/08/group5-syria/>

94 "Group5: Syria and the Iranian Connection" citizenlab, August 2, 2016 <https://citizenlab.org/2016/08/group5-syria/>

prominent opposition activist. Hackers created email addresses and social media profiles linking to the fake publications in order to communicate with government opponents and human rights defenders and map out their social networks. Once trust was established, the hackers targeted victims with so-called remote access trojan (RAT) programs and gained access to their devices.

Numerous reports have detailed the spillover of the country's conflict to the online sphere. According to the cybersecurity group FireEye, Russia's intelligence agency, the FSB, stepped up technical attacks against Syrian human rights organizations and opposition groups in a major campaign to glean intelligence and disrupt reporting on Russian human rights violations.<sup>95</sup> In December 2014, the University of Toronto's Citizen Lab released a report entitled, "Malware Attack Targeting Syrian ISIS Critics," focusing on groups such as Raqqa is Being Slaughtered Silently (RSS), which documents human rights abuses committed by IS. Citizen Lab believes the malware was developed by IS or pro-IS hackers in order to discover more information about the nonviolent group.<sup>96</sup>

In March 2016, the FBI added three SEA members to its "Cyber Most Wanted" list.<sup>97</sup> Later that May, Syrian national Peter Romar was extradited from Germany to the U.S on charges of conspiracy linked to a hacking for his alleged membership of the SEA. He pled guilty that September.<sup>98</sup>

The SEA made headlines after hacking major Western media outlets and organizations, including the websites of the New York Times,<sup>99</sup> the U.S. Marines,<sup>100</sup> Facebook,<sup>101</sup> and many others. Most of the attacks occurred on the DNS level, which involved redirecting requests for the domain name to another server. The Twitter account of Barack Obama, run by staff from Organizing for Action (OFA), was briefly hacked by the SEA, resulting in the account posting shortened links to SEA sites.<sup>102</sup> The hackers had gained access to the Gmail account of an OFA staffer. On March 17, 2013, the SEA hacked the website and Twitter feed of Human Rights Watch, redirecting visitors to the SEA homepage.<sup>103</sup> These tactics continued with the high-profile hacking of Forbes in February 2014<sup>104</sup> and the Washington Post in May 2015.<sup>105</sup>

Though the hacktivist group's precise relationship to the regime is unclear, evidence exists of government links or at least tacit support. These include the SEA registering its domain in May 2011 on

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95 Sam Jones, "Russia steps up Syria cyber assault," *Financial Times*, February 19, 2016, <https://www.ft.com/content/1e97a43e-d726-11e5-829b-8564e7528e54>

96 John Scott-Railton and Seth Hardy, *Malware Attack Targeting Syrian ISIS Critics*, CitizenLab, December 18, 2014, <http://bit.ly/1JbRwMW>

97 James Temperton, "FBI adds Syrian Electronic Army hackers to most wanted list," *Wired*, March 23, 2016, <http://www.wired.co.uk/article/syrian-electronic-army-fbi-most-wanted>

98 "Syrian Electronic Army Hacker Pleads Guilty" Department of justice, September 28, 2016, <https://www.justice.gov/opa/pr/syrian-electronic-army-hacker-pleads-guilty>

99 Christine Haughney and Nicole Perloth, "Times Site Is Disrupted in Attack by Hackers," *New York Times*, August 27, 2013, <http://nyti.ms/17krXEO>

100 Julian E. Barnes, "Syrian Electronic Army Hacks Marines Website," *The Wall Street Journal*, September 2, 2013, <http://on.wsj.com/1KGVnFf>

101 Adario Strange, "Syrian Electronic Army Hacks Facebook's Domain Record," *Mashable*, February 5, 2014, <http://on.mash.to/1EQuHPY>

102 Gregory Ferenstein, "The Syrian Electronic Army Hacked Obama's Twitter Links And Campaign Emails," *Tech Crunch*, October 28, 2013, <http://tcrn.ch/1Xi62bV>

103 Max Fisher, "Syria's pro-Assad hackers infiltrate Human Rights Watch Web site and Twitter feed," *Washington Post*, March 17, 2013. <http://wapo.st/1eU9nKI>

104 Andy Greenberg, "How the Syrian Electronic Army Hacked Us: A Detailed Timeline," *Forbes*, February 20, 2014, <http://onforb.es/MEWYiq>

105 Brian Fung, "The Syrian Electronic Army just hacked the Washington Post (again)," *Washington Post*, May 14, 2015, <http://wapo.st/1jS0eY7>

servers maintained by the Assad-linked Syrian Computer Society;<sup>106</sup> a June 2011 speech in which the president explicitly praised the SEA and its members;<sup>107</sup> and positive coverage of the group's actions in state-run media.<sup>108</sup>

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106 The Syrian Electronic Army, <http://sea.sy/index/en>

107 Haroon Siddique and Paul Owen, "Syria: Army retakes Damascus suburbs-Monday 30 January," *The Guardian*, January 30, 2012, <http://bit.ly/1LZSDQA>; Voltaire Network, "Speech by President Bashar al-Assad at Damascus University on the situation in Syria," June 20, 2011, <http://bit.ly/1FzOUEp>

108 "The Syrian Electronic Army Fights Rumors and Gives the True Picture of the Incident," [in Arabic], *Wehda*, May 17, 2011, <http://bit.ly/1OfOsCp>