# **Granicus GovQA**

### Description

Insufficient permission check vulnerabilities in Granicus's GovQA allowed unauthorized access to view, edit, and change ownership of open records requests<sup>[1]</sup>, including restricted-access confidential records. By changing ownership of a request, an attacker could effectively deny a legitimate user's access to that request. The vulnerabilities affected various deployments, including numerous Departments of Children and Family Services or their equivalents, which handle highly sensitive records of domestic violence and sexual abuse allegations against children.

#### **Details**

The vulnerabilities allowed attackers to perform several unauthorized actions, as detailed below.

- To view request details, an attacker could access RequestOpen.aspx?rid=<requestId> or RequestOpenCI.aspx?rid=<requestId>, allowing them to view the name and other private information about the requester, as well as full details of the request.
- To edit request details, an attacker could access RequestOpenCI.aspx?rid=<requestId> to modify any field originally set by the requester.
- To change ownership of requests, an attacker could access RequestOpenCI.aspx?rid=<requestId> to manipulate the email field to assign ownership to their own account, another user's account, or to an email address not associated with an existing user.
- To download files attached to a request, which include those uploaded by the requester and the responding organization, an attacker could send a POST request to RequestEdit.aspx/DownloadAll with the data { itemId: <requestId> } . This action would return a URL similar to /temp/<requestId>.zip , which could then be used to download the files. A proof of concept exploit is included below.

The sequential numbering of Request IDs makes it trivial for attackers to discover other requests, posing future risk to the system.

In a clear effort to protect its brand value, Granicus has deemed this issue low severity<sup>[2]</sup>, showcasing an egregious disregard for industry-standards, such as the Common Vulnerability Scoring System (CVSS).

CVSS: 9.8 (AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H)

#### **Timeline**

- 2024-01-06 Vulnerabilities discovered in GovQA.
- 2024-01-08 Granicus notified that vulnerabilities exist in GovQA.
- 2024-02-27 Vulnerability details reported to Granicus.
- 2024-03-04 Granicus confirms receipt of report.
- 2024-03-04 Vulnerabilities confirmed fixed.

## **Proof of Concept**

```
/*
 * Download all files for the request currently being viewed.
 * No authentication is required.
 */
DownloadFiles((new URL(window.location)).searchParams.get('rid'));
```

```
async function DownloadFiles(itemId) {
  const result = await fetch("RequestEdit.aspx/DownloadAll", {
    method: "POST",
    body: JSON.stringify({
       itemId: itemId
    }),
    headers: {"Content-Type": "application/json; charset=utf-8"}
})
  if (result.status !== 200) {
      console.log(`Unable to download archive for ${itemId}.`);
      return;
  }
  const json = await result.json();
  console.log(`Attempting to download ${json.d}`);
  window.location=`.${json.d}`;
}
```

### Acknowledgements

- Jaku, founder of Crowd Control, who frequently offers his cybersecurity wisdom and experience.
- Johnny Xmas, Burbsec President, who has long provided guidance and acted as the voice of reason.
- David DiMolfetta from Nextgov/FCW, who immediately understood the severity of these vulnerabilities, took them to his editors, and worked tirelessly on his article<sup>[3]</sup>.
- Zack Whittaker from TechCrunch, who graciously allows me to rant about cybersecurity.
- Brendon Keefe from Atlanta News First, who retroactively permitted me to use his open records request for testing.
- The CISA CVD Team assisted with the coordination of these vulnerabilities.

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## **Sponsorship**

- If you enjoy my work, consider becoming a sponsor on Patreon or GitHub, and/or consider donating to the Electronic Frontier Foundation or St. Jude. Many hours of unpaid labor<sup>[4]</sup> are put into researching and disclosing vulnerabilities.
- 1. The term "open" in "open records requests" can be misleading, as not all "open" requests are intended for public access. Many state and local governments have exceptions regarding the types of information that can be requested and the individuals permitted to access it. For instance, individuals directly affected by a record may have a legal right to request access regardless of public release exemptions. However, accessing such requests may pose security risks, as sensitive information could be downloaded by attackers. Furthermore, different states have varying requirements for requesting access, with some jurisdictions requiring proof of identity or residency. For example, Tennessee mandates requestors to upload a copy of their State ID to prove residency, potentially exposing personal information to unauthorized access.
- 2. If Granicus considers the leakage of explicit records describing the sexual abuse of children to be of low severity, I shudder to think what they might consider to be of medium or high severity.

3. Flaws in public records management tool could let hackers nab sensitive data linked to requests 🔁	
4. Full disclosure: Granicus has offered to pay me a bounty for reporting this vulnerability; as of publication, that payment is pending.	