



GUIDE TO PROVIDING SABER STATUS DATA

Guide to Providing Business Disruption Information
Through SABER

The SABER Team
info@SABERspace.org
V3XCBD



Contents

Guide to Working with SABER Data	2
Part 1: Providing Business Disruption Status Data to SABER.....	3
CSV Files (Excel® Spreadsheets)	3
GeoRSS Feeds	5
GeoJSON Source	5
SOAP Web Services	Error! Bookmark not defined.
SpotOnResponse Mobile App and Web Application	6

Guide to Providing SABER Status Data

SABER has guides that describe how to provide, consume, and display business disruption status data from SABER, the Single Automated Business Exchange for Reporting.

In the illustration below, the private sector generally is the source of business disruption status using spreadsheets, automated feeds, web services, and mobile apps. The private sector is the consumer of business status using their own situational awareness and geospatial visualization software.

SABER uses the XchangeCore Web Services Data Orchestration Big Data (XCBD) as its technology for exchange. XchangeCore is capable of transforming a variety of different formats of disruption data into the National Information Exchange Model (NIEM) standard incident structure as well as into GeoJSON, HTML, and KML.

This guide provides details on all the different ways status is provided to SABER.

Three Ways Companies Provide Status to SABER

- 1. A Simple Spreadsheet**
Spreadsheet is posted by company on SABERspace website, transformed to NIEM standard, consumed by existing applications of authorized organizations
- 2. Mobile App Available**
Companies use in their facilities and governments give to local companies to assure automatic status reporting and shared situational awareness.
- 3. Fully Automated Connection**
Walmart leads the way by providing a fully automated connection to SABER for continuous updates.



Sears, Macy's, Target, Lowes, Costco, Walmart, Walgreens

Invite You to Join SABER

Dear Colleagues,

Macy's, Target, Sears, Lowes, Walmart, Costco, Walgreens, and other corporations all make their business continuity status available to federal, state, and local governments through SABER, the Single Automated Business Exchange for Reporting. Together we invite your company or your agency to enroll in SABER to improve how the private sector provides business status information to governments.

The purpose of SABER is to provide a single location for private sector organizations to deposit operations status information for sharing with authorized government agencies and other approved organizations.

We believe that SABER saves us time, improves currency and accuracy of information that governments use, and reduces gaps, overlaps, and inconsistencies in the critical information that governments use for response decisions.

SABER is a non-profit organization created by the private sector that has been operational for nearly two years now. SABER has functioned during numerous exercises in Florida, California, and Illinois plus the national CAPSTONE exercises in 2014 and 2015. SABER also is experienced in real activations for the Northeast Snowmageddon, Hurricane Arthur, Typhoon Dolphin, the Napa Earthquake, and Hurricane Joaquin flooding.

To improve how you share business disruption status and reduce the burden of doing so, we invite you to enroll in SABER at www.SABERspace.org.

We hope to see your disruption status on SABER at the next exercise so we all are better prepared.

Jim Williams and James Waldrop, Sears Holdings

David Hosier, Macy's

Gabriel Marcus, Costco Wholesale

Rachael Tovey, Walgreens

John Mueller, Target

Rick Neudorff, Lowes

Brooke Brager, Walmart

Enroll at www.SABERspace.org

Governments Consume Disruption Status from SABER

Have a VBEOC, no problem to add SABER status

Google Earth is easy to use

Get the SABER board for WebEOC at no cost

Go mobile with SpotOn Response

ArcGIS Online gets SABER data easily

Simple lists available too

Add SABER Status Map to website or VBEOC

Providing Business Disruption Status Data to SABER

This section of the guide describes the use of the various types of data ingests to create the NIEM standard exchange format which XchangeCore then distributes to external applications that can visualize on a map or incorporate into their application.

The data exchange formats specifically used by SABER are:

- CSV files (spreadsheet-like documents)
- GeoRSS feeds (automated standardized format)
- GeoJSON feeds (automated standardized format)
- SpotOnResponse mobile app

The process for providing each of the formats of business disruption data to SABER are described below. You will use only one of these formats, selected in consultation with SABER based on your existing capabilities.

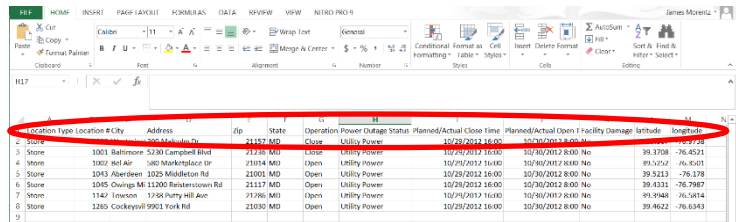
CSV Files (Excel® Spreadsheets)

CSV files are created in spreadsheets that are then saved in the Comma Separated Valued (CSV) file format. When a private sector organization registers on the SABER website (www.SABERspace.com), it will provide SABER with the spreadsheet that the company currently uses to share its disruption information with internal management or others, if one exists. If a standard format is not already in use, SABER can provide one.

A. To prepare for submitting data to SABER:

SABER analyzes the company spreadsheet and configures a connector to translate and transmit automatically the spreadsheet data to the SABER XchangeCore Big Data. Spreadsheets have the following requirements:

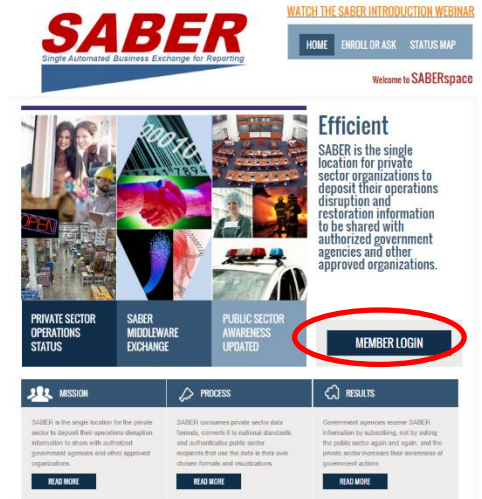
- CSV format is used to save the document.
- A SINGLE first row contains column header names that will be used to provide labels for the data.
- All future documents must maintain the same exact format, including assuring that no blank rows or columns are introduced during editing.
- A sample spreadsheet is available on the www.SABERspace.org website after enrollment for those who need a model CSV file or for those who can make use of the sample file.



	Location Type	Location #	City	Address	Zip	State	Operation	Power	Outage Status	Planned/Actual Close Time	Planned/Actual Open Time	Facility Damage	Latitude	Longitude
1	Store	1001	Baltimore	5228 Campbell Blvd	21246	MD	Close	Utility Power	No	10/29/2012 16:00	10/30/2012 8:00:00	No	39.2728	-76.4521
2	Store	1002	Bel Air	340 Markonplace Dr	21034	MD	Open	Utility Power	No	10/29/2012 16:00	10/30/2012 8:00:00	No	39.5252	-76.4501
3	Store	1043	Alderden	1025 Middleton Rd	21001	MD	Open	Utility Power	No	10/29/2012 16:00	10/30/2012 8:00:00	No	39.5213	-76.178
4	Store	1045	Owings Mill	13000 Reisterstown Rd	21117	MD	Open	Utility Power	No	10/29/2012 16:00	10/30/2012 8:00:00	No	39.4331	-76.7987
5	Store	1142	Frederick	1746 Perry Hill Ave	21786	MD	Open	Utility Power	No	10/29/2012 16:00	10/30/2012 8:00:00	No	39.4948	-76.5414
6	Store	1245	Cockeysville	9901 York Rd	21030	MD	Open	Utility Power	No	10/29/2012 16:00	10/30/2012 8:00:00	No	39.4622	-76.6343

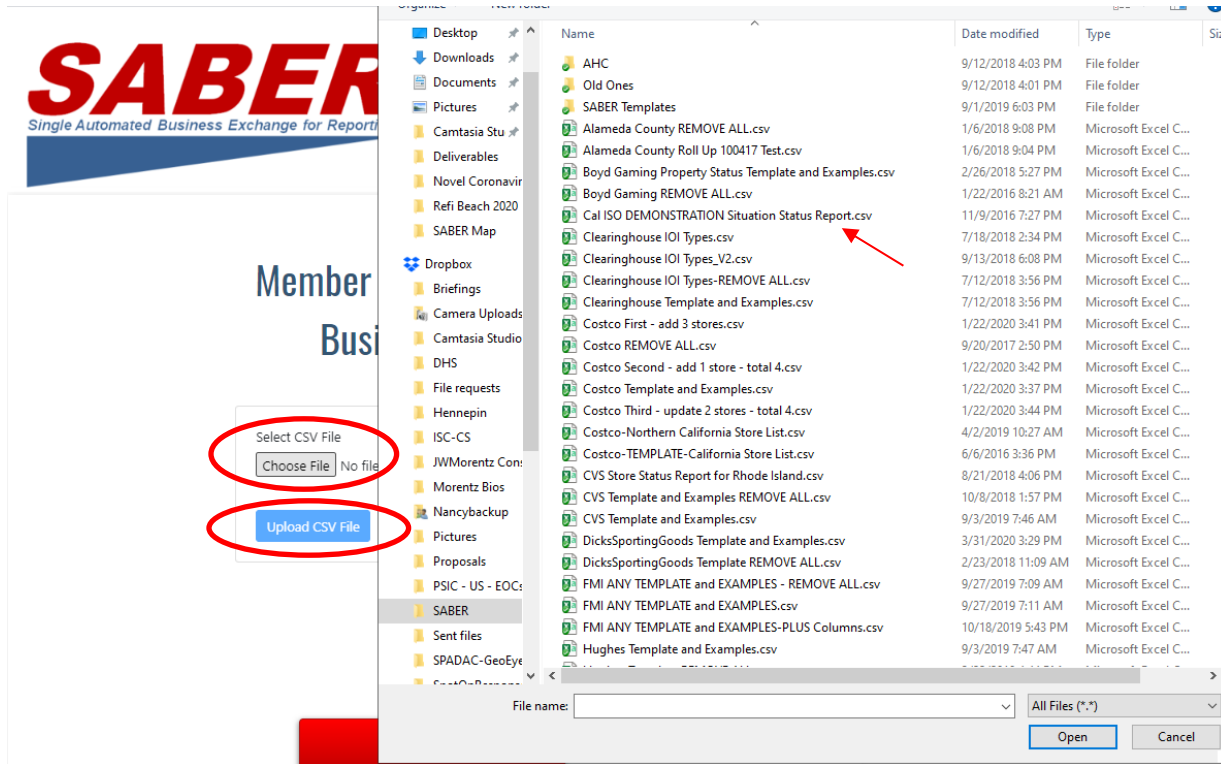
B. To submit data to SABER:

1. Company puts business disruption data in a spreadsheet which is saved in the CSV format established in A, above.
2. On SABERspace.org, the CSV file is uploaded through the Members Login button (right).
3. On the Member Login page enter the username and password provided by SABER to authenticate the company to access and upload data securely.



4. Click the Log In button.

- Click the Choose File button to select your CSV file.



- Click Upload.
- Your browser will indicate that the upload is processing. (Chrome, Internet Explorer, and Firefox have a spinner on the tab, for example.)

Following upload, the new/updated data will appear in any visualization application used by the company that is connected to the SABER XchangeCore using methods described in the Consuming SABER Status guide. The frequency of updates will depend on the type of emergency. For example, in the COVID-19 Pandemic, updates only take place every three hours. For other fast-moving emergencies, updates may be more frequent.

After uploading data, companies may use the SABERspace.org website SABER Map tab to see data that has been designated for open distribution. Closed distribution data is available only on separately secured applications.

The SABER Status Map is provided by SpotOnResponse LLC (www.SpotOnResponse.com) as a service to the SABER Community.

GeoJSON Source

GeoJSON is a Web service output format for encoding many geographic data structures. These geometry types include point, line, polygon, multipoint, multiline, and multipolygon.

Additional descriptive information can be format into flexible structures describing the features of the geography.

A GeoJSON source for SABER is provided by a company that publishes its disruption data through a Web URL containing the GeoJSON file. The file consists of from one to many individual facility disruption data records in the GeoJSON format.

For its data exchange, SABER uses XchangeCore Web Services Data Orchestration Big Data which includes a GeoJSON Connectors Injector that transforms GeoJSON data and transmits that data to XCBD. NIEM standard incident data formats may be created.

To submit data to SABER through a GeoJSON source:

- A. Company provides GeoJSON URL to SABER.
- B. SABER configures the GeoJSON Connector.
- C. Continuous operation results from the permanent linking of the GeoJSON feed to SABER.

GeoRSS Feeds

A GeoRSS feed is an older Web document format that adds to RSS (Really Simple Syndication) feeds the location in a latitude and longitude format. These geographic locations can be represented by a point, line, box, and polygon.

A GeoRSS feed for SABER is provided by a company that publishes its disruption data through a Web URL containing the feed. The feed consists of from one to many individual facility disruption data records in the GeoRSS format.

For its data exchange, SABER uses XchangeCore Big Data Web Services Data Orchestration which includes a GeoRSS Injector that transforms GeoRSS data and transmits that data to XchangeCore where NIEM standard incident data formats are created.

To submit data to SABER through a GeoRSS feed:

- A. Company provides GeoRSS URL to SABER.
- B. SABER configures the GeoRSS Injector.
- C. Continuous operation results from the permanent linking of the GeoRSS feed to SABER.

SpotOnResponse Mobile App and Web Application

SpotOnResponse is a partner with SABER and provides the SpotOnResponse Mobile App at a reduced cost to both private sector companies and to governments.

- Companies provide the app to their business locations for managers to report status information to the company and to SABER.
- Business Emergency Operations Centers (BEOC) subscribe to SpotOnResponse and give the mobile app to all their members to get fast, accurate, current business operating status.
- A BEOC member company can subscribe to SpotOnResponse as their contribution to the BEOC and SpotOnResponse allows all BEOC members to use that subscription.
- Governments subscribe to SpotOnResponse and provide it to the members of their private sector group or Business Emergency Operations Center.

When combine with the SpotOnResponse planning, situational awareness, and employee availability status reporting, this is an excellent management tool for small and medium size businesses. The result is that companies have the benefit of communicating directly with the government and at the same time report to SABER about business disruptions for sharing with other government and private sector SABER Members.

Using SpotOnResponse to Provide Operating Status of Business, Utilities, Critical Infrastructure



For more information about SpotOnResponse for business status reporting see www.SpotOnResponse.com.