

VEHICLE RAMMING SELF-ASSESSMENT TOOL USER GUIDE

OVERVIEW

The Vehicle Ramming Self-Assessment Tool User Guide is designed to help users become familiar with the Vehicle Ramming Self-Assessment Tool. The Cybersecurity and Infrastructure Security Agency (CISA), in partnership with the Chicago Police Department's Crime Prevention and Information Center (CPIC), developed the tool to assist critical infrastructure owners and operators and federal, state, and local law enforcement agencies with evaluating areas of interest against the risk of a vehicle-ramming style of attack.

The tool evaluates multiple user-defined areas of interest, prioritizes the areas based on evaluation criteria, and identifies mitigation options for planning purposes.

HOW TO USE THE TOOL

System Requirements

The tool works well in a variety of web browsers, but for optimal performance use Microsoft Edge or Google Chrome. Results are also best viewed when using a computer running Windows 7 (or later) and with Microsoft Word and Excel 97 (or later). The tool does not retain data; all data entered is saved by the user in a text file.

User Interface

The tool is located at <u>cisa.gov/vehicle-ramming-self-assessment-tool</u>. Additionally, stakeholders can access the User Guide and tool via the <u>cisa.gov/vehicle-ramming-attack-mitigation</u> web presence. Upon opening the tool link, users can navigate the tool functions by selecting the Home, Data Entry, Vulnerabilities and Options for Consideration, Results, Information and Resources, and Export tabs across the top of the homepage (see Figure 1). From any tab, users may access instructions by clicking the button on the top left of the page.



FIGURE 1: VEHICLE RAMMING SELF-ASSESSMENT TOOL

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ENTER DATA

Begin or Continue a Self-Assessment

From the Home tab:

- Start a new survey by clicking on the green "Click Here to Begin New Survey" button, which will direct the user to the data entry tab to begin entering the organization's areas of interest (see Figure 1); or
- Click on "Choose File" under the heading "Load Previously Saved Vehicle Ramming Assessment" to reopen an existing assessment. Refer to Figure 2: Save an Assessment for more information on this function.
- Once the text file is selected, click on "Load Chosen File Data." A pop-up window will appear indicating the previously saved data was uploaded. The tool will automatically direct the user to the Data Entry tab to continue the assessment.

Exports -	
Save Input For Later Use	
Excel Exports	
Export Areas of Interest	
Export VOFCs	
Export Score Results	
Export All	
Word Export	
Create Report	

FIGURE 2: SAVE AN ASSESSMENT

This tool allows users to save and upload previous assessments so the user may continue security planning later or share an assessment with another user.

To save an assessment:

- Click on the Exports drop-down tab (see figure 1) and select "Save Input for Later Use."
- When selected, a pop-up window appears indicating the data is being saved to an unprotected text file and may only be used with this application.
- The generated text file will appear in the browser's "downloads" section; the naming convention is Assessmentname_SavedInfo_ date.txt and is not formatted.

Users should save their assessment after each session, not periodically; each save creates a new text file, and saving periodically may create a version control issue.

Data Entry

Navigate to the Data Entry tab next to begin the self-assessment.

- Add an assessment name in the space provided (see Figure 3). Users must name the assessment for the tool to save data or generate reports.
- Add areas of interest. An area of interest is any location that the user wants to evaluate.
 - Select the "Add" button (see Figure 3) and enter the name, location, and description for each area of interest in the pop-up window (see Figure 4). For optimal reporting and interpretation of results, keep names and descriptions for each area of interest consistent.
 - NOTE: The coordinates field is exported into the areas of interest, VOFCs, and all data MS Excel reports, which can assist users in loading data into mapping software.
 - Select the green "Add Area of Interest" button at the bottom of the pop-up window, and a message will confirm the new area of interest).
 - Edit or delete areas of interest using the edit and delete buttons, respectively.

FIGURE 3: AREA OF INTEREST DATA ENTRY

	Vehicle Ramming Self-Assessment	Tool
Home Data Entry VOFCs	Results Information and Resources Exports -	
Click here to view Instructions		Clear and Start New Assessment
Assessment Name: Enter Name For Assessment	nent A	
Data Entry per Area o	fInterest	Clear Selected Area of Interest Data
Add Edit Delete	Main Street and First Street - Bank - 100 Main Street Select an area of interest on the left and answer the self-assessment questions in each of the sections below.	Score not Available
Main Street	NOTE: Self-Assessment questions cannot be answered unless an area of interest is added and/or selected.	
	+ Environmental Characteristics	Answered 0 out of 3 Questions
	+ Vehicle Characteristics	Answered 0 out of 1 Question
	+ Pedestrian Factors	Answered 0 out of 4 Questions

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- Answer questions for each area of interest
 - Select an area of interest. Ensure it is highlighted in blue (see Figure 3) or you will be unable to proceed.
 - For each area of interest, answer all eight questions across the three evaluation categories: Environmental Characteristics, Vehicle Characteristics, and Pedestrian Factors.
 - Expand each category to view the questions, and make the appropriate selections for your area of interest. Each category has a question count indicating how many questions have been answered; this feature serves as the signal to move to the next area of interest (see Figure 5).
 - Access the "More Information" menu under each question for clarifying information about how best to answer.
 - Note: Users may proceed one of two ways: Create all areas of interest first and then answer assessment questions for each area; or create an area of interest, answer the assessment questions, and repeat.
 - Once all areas of interest and questions are complete, continue to the next step.

Create an Area of Interest
Areas of Interest should have entrances where a vehicle can enter.
Name:
Location Street/Building Name/Building Number:
Coordinates (optional):
Description (optional):
Add Area of Interest
Close

FIGURE 4: CREATE AN AREA OF INTEREST POP-UP

FIGURE 5: QUESTION COUNT

+ Environmental Characteristics	Answered 0 out of 3 Questions
+ Vehicle Characteristics	Answered 0 out of 1 Question
+ Pedestrian Factors	Answered 0 out of 4 Questions

REVIEW VULNERABILITIES AND OPTIONS FOR CONSIDERATION

After entering all areas of interest data and answering the corresponding questions for each area, proceed to the Vulnerabilities and Options for Consideration (VOFCs) tab. Here, users can select an area of interest and review the vulnerability categories (entrance openings, openings along street, and crowd management), prioritization scale rating (see Table 1), and options for consideration to mitigate the vulnerabilities.

Expand each vulnerability category to view the corresponding vulnerabilities, and select any or all applicable options for consideration by selecting the box next to the option (see Figure 6). Several options for consideration are available; some options may be the same across vulnerabilities. The options for consideration should not serve as an endorsement or prescriptive measure to be installed or used at a specific location. Rather, they are intended to serve as a guide or potential indicator for additional research and consideration based on organizational needs. The selected VOFCs will appear with the area of interest.

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FIGURE 6: SELECTING OPTIONS FOR CONSIDERATION

Home Data Entry VOFCs Results Information and Resources Exports -	
Click here to view Instructions	ment
Click here to Review Vehicle Ramming Prioritization Scale	
VOFCs per Area of Interest	t Data
Main Street and First Street - Bank - 100 Main Street and First Street - Bank - 100 Main Street Moderate Concern (6	<mark>9)</mark>
Vulnerabilities and Options for Consideration	
- Entrance Openings	
The facility has no barriers, or openings between barriers in the area of interest allow vehicles to drive through unobstructed.	
Evaluate vehicle traffic patterns near the facility. Design and implement strategies to reduce vehicle speeds, improve pedestrian safety, and reduce the threat of vehicle approach velocities.	
Install a bollard system that is well-integrated into the perimeter security design and the streetscape to minimize visual impact. Bollard height should by pically not be more than 38 inches. Bollard spacing should be between 36 and 48 inches, depending on the kind of traffic expected and the needs of pedestrians and the hand(capped.	Ţ

VIEW RESULTS

From the Results tab, users can view a simplified version of the prioritization scale ratings for each area of interest. The areas of interest self-assessment score results (see Figure 7) are prioritized based on a scale of some concern, moderate concern, and elevated concern (see Table 1). This prioritization scale allows the user and security planning team to order their tasks based on level of concern, problem area, and operational needs/resource constraints of their organization. Areas of interest categorized with moderate concern likely have problems in either vehicle size or pedestrian factors, whereas areas of interest with elevated concern usually have problems related to both vehicle size and pedestrian factors. The tool allows each stakeholder to develop a risk mitigation strategy based on their identified vulnerabilities and options for consideration.

NOTE: The prioritization scale methodology is viewable in the results tab at the "Click Here to Review Vehicle Ramming Prioritization Scale" button and in Appendix B of the Word document version of the report.

FIGURE 7: AREAS OF INTEREST SELF-ASSESSMENT SCORE RESULTS

Vehicle Ramming Self	-Assess	ment Tool
Home Data Entry VOFCs Results Information and Resources Exports-		
Click here to view Instructions		Clear and Start New Assessment
Areas of Interest Self-Assessment Score Results		
Click here to Review Vehicle Ramming Prioritization Scale		
Asset Name - Location	Score	Prioritization Scale
Main Street and First Street - Bank - 100 Main Street	68	Moderate Concern

TABLE 1: VEHICLE RAMMING PRIORITIZATION SCALE

Elevated Concern	Areas of interest in this category usually have problems related to both vehicle size and pedestrian factors. Mitigation in this category will likely be more complex and depend on various factors.	76-100
Moderate Concern	Areas of interest in this category likely have problems in either vehicle size or pedestrian factors. Mitigation efforts may focus more heavily on one aspect of the problem.	51-75
Some Concern	Areas of interest in this level likely do not require immediate action but may benefit from general mitigation efforts. If there are areas of interest in other levels of concern, they should be considered first.	0-50

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INFORMATION AND RESOURCES

The Information and Resources tab (see Figure 8) provides a starting point for users to learn more about vehicle barriers and/or crowd management to help mitigate the risk of a vehicle ramming incident. Within the tab, users can explore barrier categories, selection, and deployment, with corresponding references. In this tab, users will find discussion of special event vehicle ramming mitigations strategies, as well as considerations for high-speed avenues of approach. The information contained in this tab is included at the end of the tool-generated MS Word document version of the report.

FIGURE 8: INFORMATION AND RESOURCES



DATA EXPORTS

The Exports drop-down tab allows users to export entered data in different configurations to make the information available for organizational use (see Figure 2 as also shown above under Data Entry). The first export function saves the assessment data from the tool for the user to continue the assessment later or share the assessment with another user to upload.

The second export function of the tool is to an MS Excel document; users may create four separate, Excel-based exports (see Table 2). To complete a data export, click on the Exports drop-down tab, and select the desired MS Excel report. The tool will download the data to a comma-separated values (.csv) file in the browser's "downloads" location. The MS Excel reports are not formatted but are organized depending on report type.

This tool allows users to save and upload previous assessments so the user may continue security planning later or share an assessment Exports with another user. To save an assessment: Save Input For Later Use Click on the Exports drop-down tab (see figure 1) and select "Save Input for Later Use." Excel Exports When selected, a pop-up window appears indicating the data is being saved to an Export Areas of Interest unprotected text file and may only be used Export VOFCs with this application. The generated text file will appear in the Export Score Results browser's "downloads" section, the naming Export All convention is · Assessmentname_SavedInfo_date.txt and is Word Export not formatted. Create Report Users should save their assessment after each session, not periodically; each save creates a new text file and saving periodically may create a version control issue.

FIGURE 2: SAVE AN ASSESSMENT (ALSO SHOWN ABOVE UNDER ENTER DATA SECTION)

Finally, the assessment data may be exported to an MS Word document. By exporting to Word, the user may add photos, tables, graphs, text, or any other desired inputs. The MS Word report is not meant to be a finished product; instead, it acts as a starting point for further security planning and finalization to meet the organization's needs.

Users should save any generated file from the tool to their computer to ensure they do not lose their work. As noted earlier, the tool does not store or save any user information.

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TABLE 2: EXCEL EXPORTS

EXPORT NAME	EXPORT DESCRIPTION
Export Areas of Interest	All data related to the area of interest including name, description, answers to questions, score, and latitude/longitude
Export VOFCs	List of areas of interest, latitude/longitude, vulnerabilities, options for consideration, and references
Export Score Results	Prioritization list from the results tab including area of interest name and location, score, and prioritization scale (without scale definitions)
Export All	All data entered in the assessment tool

ADDITIONAL RESOURCES

If you need technical assistance with the Vehicle Ramming Self-Assessment tool, please email <u>CISA.ISD.OSP</u>. <u>VehicleRammingMitigation@cisa.dhs.gov</u>.

To access additional vehicle ramming mitigation resources, visit cisa.gov/vehicle-ramming-attack-mitigation.

If you have questions or need assistance with vehicle-ramming mitigation measures, please contact your local Protective Security Advisor (PSA). The CISA PSAs, who are located throughout the country, are available to assist stakeholders with vulnerability assessments, emergency action planning, and security-based coordination. To reach your local PSA, visit <u>cisa.gov/protective-security-advisors</u> or email <u>central@cisa.dhs.gov</u>.

For additional information regarding the types of threats posed to public gatherings and resources with options for consideration to support risk-mitigation activities, visit <u>cisa.gov/securing-public-gatherings</u>.