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## **MISC-2022-03 Protection of confidential information and data access**

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Attached is a ZIP file contains a file structure that offers protection of confidential information while allowing data access.

The structure is based on a tiered system that can prevent unauthorized access confidential information without requiring authentication of public end user.

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*Additional submitted attachment is included below.*

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Attached is a ZIP file contains a file structure that offers protection of confidential information while allowing data access.

The structure is based on a tiered system that can prevent unauthorized access confidential information without requiring authentication of public end user. In other words, no user name or password is required of the public end user to access the published data.

All public data is published as static files that do not require processing before delivery to the public. This greatly increases the speed and ability of the system to deliver the requested data when compared to systems that have to process data before delivery.

I will start with the public tier and what the public end user will see. The data is held on a public web server. A Uniform Resource Locator (URL) is used to retrieve the information required access data. The information will provide URLs to access specific data. This tier is represented by the "WEBSRVR" directory in the ZIP file.

The next upstream tier will offer a physical barrier that will prevent public access to confidential information. Consider it a loading dock that is out going only for data headed to the public web server. Just as when product is shipped from the loading dock making the loading dock empty, the directory from which the data is moved to the public web server while be emptied of the data. This tier shall be invisible to the public at all times and is represented by the "LOCAL" directory in the ZIP file.

The next upstream tier is where the data that will be made public is stripped of confidential information. Any information that could be used to connect the data to confidential information is changed. Domains such as account identification, company identification, location, and any other information is replaced with a foreign key. This foreign key that I am proposing is a integer with eight digits for each domain. A key to the data is produced so authorized persons can connect results of data processed by the public with its source. After the data has been processed at this tier it is sent to the loading dock tier and then moved to the web server. The key that connects the foreign keys to the domains in the confidential information will be copied to the tier that holds the confidential information. These tiers shall be invisible to the public at all times and are not represented in the ZIP file.

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