
4. ONGOING PROCESSING OF ORDER DATA

4.1. Transmitting Details of New Line Item Orders to the SOM Cloud System

The SOM cloud service runs on its own virtual machine. The connections established between the client's point of sale system (POS) and its corresponding virtual server can either be through SSL initiated from the POS system or it can be VPN initiated from a virtual server. Identity and access management (IAM) is used only to bring up new virtual instances and an organization's data is not transferred across these SSL connections.

Once a virtual server instance is initiated and the SOM system is running, it establishes a connection to Compliance Solutions VPN gateway. After the VPN is set, the reference data is transferred to the "instance" from the SOM reference database. The SOM reference database includes active ingredient data, code updates and Drug Enforcement Administration (DEA) registration information. Operational data is transferred from the Master Data Backup system to the appliance at which point the instance is now ready for order evaluation. Each hour, summary and recovery data is transferred from the SOM "instance" to the Master Data Backup system.

4.2. Middleware Connectivity

The cloud based SOM model sends a summary of each order to the SOM server. The registrant's order management system must periodically poll or make a request from the SOM server to obtain the status of all submitted orders. This process may be handled via HTTPS or SFTP method. "Pended" (Held) orders are actively displayed in the SOM system. The cloud based SOM Model provides easy to use tools for organizing orders and making journal entries for investigative activities performed to clear orders. Clients may also add "rules" to tailor order processes for certain controlled substances, certain customers or certain situations, such as when there is a new drug without an adequate history for the algorithm to produce meaningful results or if there are well defined drug shortages that would affect normal ordering and distribution patterns. There are also "stress bars" which display additional useful information such as the actual SOM score and the ratio of controlled substances ordered as a percentage of all drugs ordered.

4.2.1. HTTPS Method

An example of data "upload" and request file guidance is provided as follows:

Session Authentication

Session initialization is performed by form posting "username=oms" and "password= omsSecure1" to `https://NAME.SOMURL.COM/rtdc.php`. (Note that *omsSecure1* is for example only)

1. This upload must be submitted by post form submission.
2. Be sure to link to a cookie file for the duration of the session (which can be as long as required).
3. Response if authentication is successful: "Successful session start".
4. Response if authentication is unsuccessful: "Authentication failed".

Example with curl: `curl --request POST 'https://somitctest1.imshealth.com/rtdc.php' --data 'username=oms&password=omsSecure1' -c cookie-file`