

System Auditing & Robustness

Introduction

SG Systems Global provides software designed for clients requiring accurate and robust traceability.

The V5 Traceability system provides accountability throughout the manufacturing process. Each action is logged in the customers database (MS SQL or MySQL) with a minimum recorded data consisting of;

- Timestamp
- Username
- Terminal
- Location

The above data is captured to provide a method of digitally looking back on actions and understand how and why they occurred.

Record Deletion

V5 Traceability record deletion is done via 'soft deletion process', which provides a historical audit trail. For example, if a commodity is deleted, the system logs who and when the item deleted. The system also retains the record in the database for reporting purposes, simply marking the record as redundant in the database. This action prevents the user interface from 'displaying' deleted information, however the traceability for the deleted item remains intact and robust.

Customers formulations (BOM's) are versioned automatically upon change, with the historical versions logged and archived within the system.

Individual system users have a list of permissions that can assigned. This limits user access to actions as well as reporting and auditing tools. This ensures that only operators with defined access rights can perform these audits and only specified operators can edit, modify and/or delete records within the system.

System Logs

The software modules in the V5 Traceability system contain a text log which stores more detailed information as to the systems operation should issues occur, these logs can be inspected to ensure system robustness.

External tools can be used to access and view reports and logs such as Jasper Reports. This is our preferred method of reporting in most instances.

If the database ever becomes too large or unmanageable, our support team will archive the data so that audits can be successfully performed years after an event has occurred.