



Navigating FabGuard IPM

Module FG 0102

Search for text in the presentation

Presentation script

Presentation thumbnails

Presentation outline



Presentation toolbar

PDF attachment

Purpose

In this module you will learn:

- Learn how to navigate the main screens of FabGuard IPM

Objective

Upon Completion of this module, you will be able to:

- Launch FabGuard IPM from the Desktop
- Login/Logout of FabGuard IPM
- Exit FabGuard IPM
- Navigate the Main Screen
- Start and Stop Automated Data Acquisition

Outline

- 1** Launching FabGuard IPM from the Desktop
- 2** The Main Screen
- 3** The Tool Tab
- 4** The Chamber Tab
- 5** The Sensor Tab

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Launching FabGuard IPM from the Desktop

Launching FabGuard IPM from the Desktop

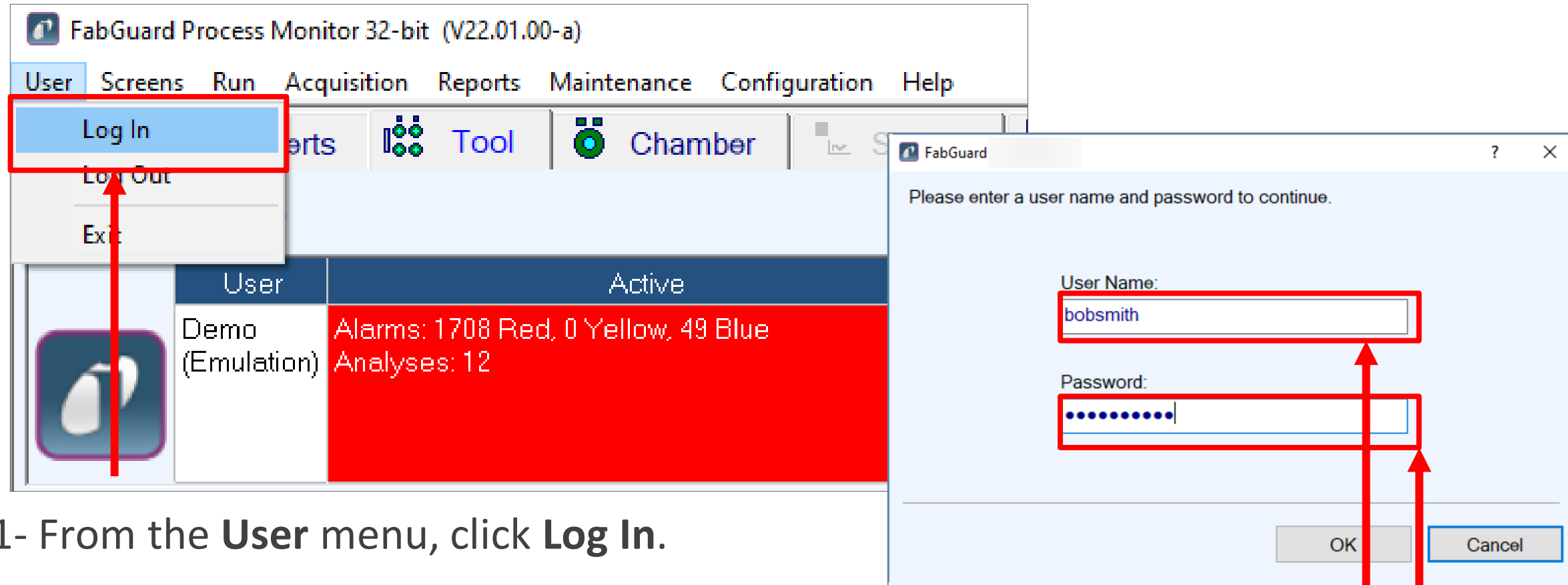


1- Double-click the **FabGuard IPM** icon.

A login dialog box with a light blue background. It contains the following elements: a title "Log in" in bold black text; a label "User name:" followed by a white text input field; a label "Password:" followed by a white text input field; and two buttons at the bottom: "Log in" and "Cancel", both in a reddish-brown color. Red boxes highlight the input fields, and red arrows point to the "Log in" and "Cancel" buttons.

2- Enter your **User name** and **Password** when the login section appears.

Login as a Different User



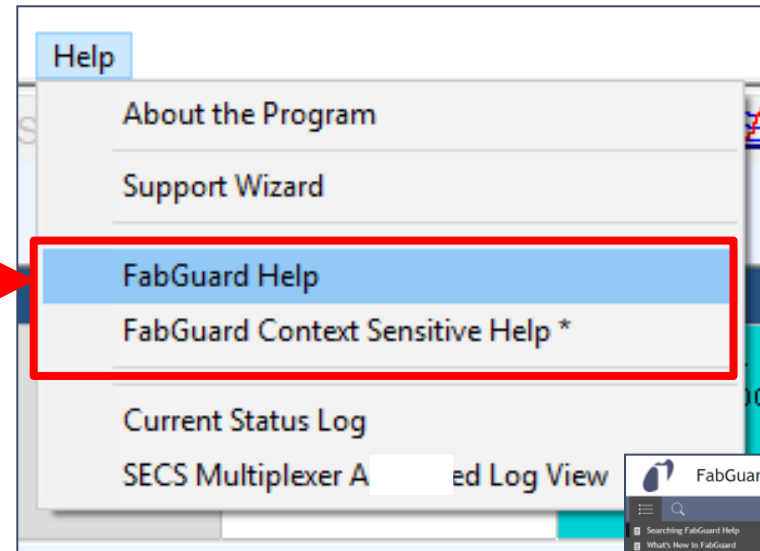
1- From the **User** menu, click **Log In**.

2- Enter your **User name** and **Password** when the login section appears.

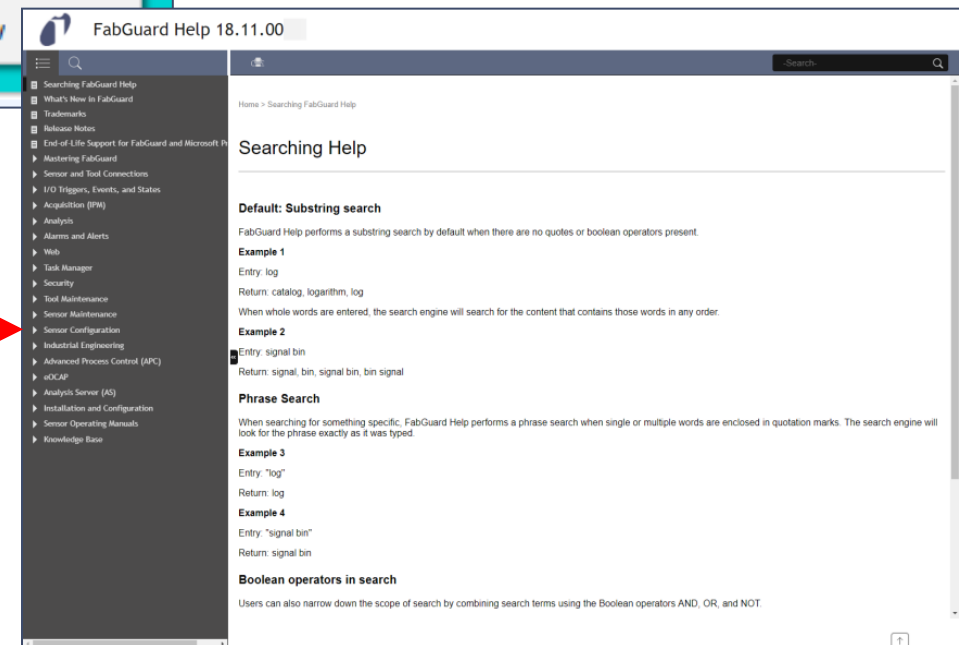
Launch FabGuard Help

1- From the **Help** menu, click **FabGuard Help**.

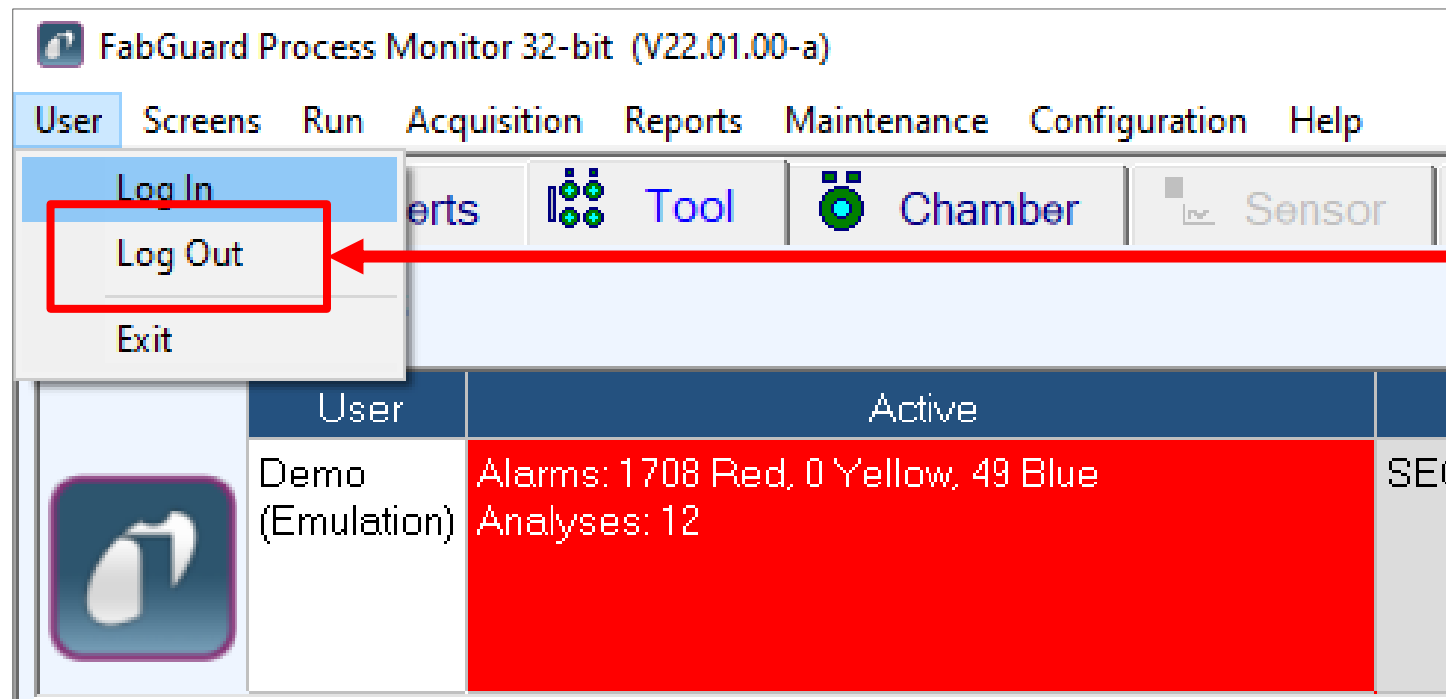
Alternatively, from the **Help** menu, click **FabGuard Context Sensitive Help**.



2- FabGuard Help opens in a new browser window.

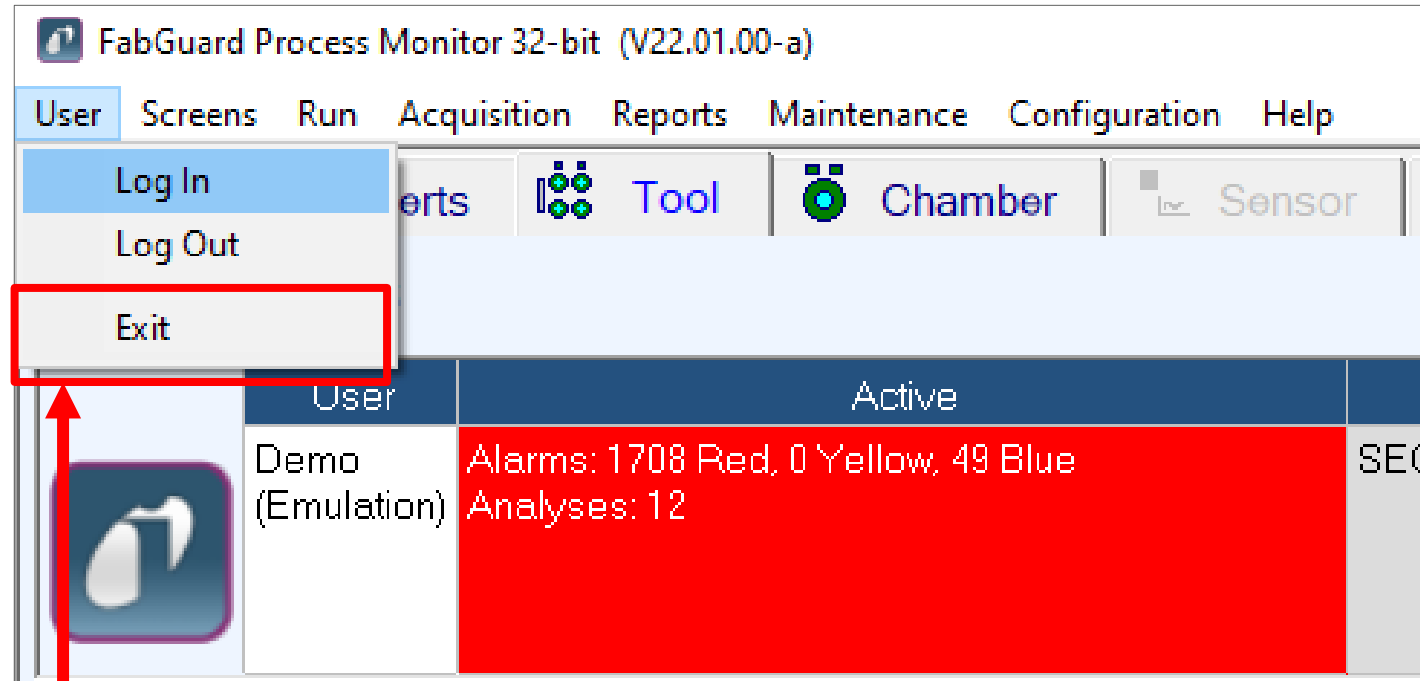


Logout of FabGuard IPM

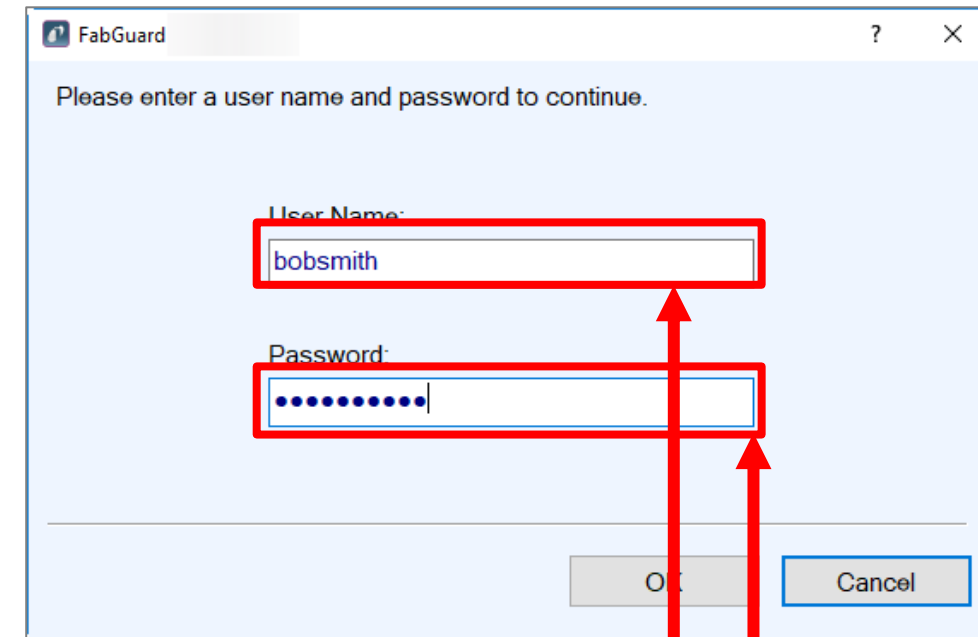


From the **User** menu, click **Log Out**.

Exit FabGuard IPM



1- From the **User** menu, click **Exit**.



2- Enter your **User** name and **Password** when the login section appears.



The Main Screen

Viewing a Defined Report

Drop Down Menus
and Screen Tabs

System Status

Tool Picture

The screenshot displays the FabGuard Process Monitor V22.01.00-a interface. At the top, there is a menu bar with options: User, Screens, Run, Acquisition, Reports, Maintenance, Configuration, and Help. Below the menu bar is a toolbar with icons for Alarms and Alerts, Tool, Chamber, Sensor, Live Data, Runs, Multi Run Viewer, Reports & Models, and Help. The main content area is divided into several sections:

- SYSTEM STATUS:** A table with columns: User, Active, Tool Comm, Device Comm, Database, and Executive. The 'Active' column is highlighted in red. Below the table, a red banner displays the last alarm: "Last Alarm: 01211451-2 : 1 : SU_01211451-2.1; Analysis - SPC RbR above UCL Critical; 'Pressure - Backside' Step 3 Value=6.0967 above UCL=5.881 in 'SPT05 - Backside Pressure' (01/21/2022 14:41:37) To..."
- TOOL PICTURE:** A large central area showing a schematic of a tool head with various components highlighted in green, red, and blue. A red arrow points to this area from the text "Tool Picture".
- RECIPE PLAN (acquiring step):** A green button at the top right of the main area.
- INFO:** A section on the right side containing details such as Lot ID, Slot ID, Substrate ID, Sequence ID, and Recipe ID.
- ACQUISITION:** A section at the bottom right with a "Manual Acquisition Stop" button.

Drop Down menus



Screens

Access the Alarm, Tool, Chamber, or Sensor screens.

Run

Perform Run file actions such as import, export, etc.

Acquisition

Start and stop data collection.

Reports

Access the Report and Model Manager or any of the data viewers.

Maintenance

Access the Tool, Chamber, and Sensor maintenance functions.

Configure

Configure the FabGuard IPM for connectivity to Tools, Sensors, and the factory.

Drop Down menus



Alarms and Alerts

Access the Alarm Manager.

Tool – Chamber - Sensor

Display Tool, Chamber, and Sensor status and data in real-time.

Live Data

Display real-time data for multiple sensors.

Runs

Load Run data into memory for viewing and editing.

Multi Run Viewer

Load Run data from multiple Runs for viewing and comparison.

Reports & Models

Access the Report and Model Manager.

Help

Access FabGuard Help.

System Status

	User	Active	Tool Comm	Device Comm	Database	Executive
	Demo (Emulation)	Alarms: 1710 Red, 0 Yellow, 49 Blue Analyses: 12	SECS: Equipment=Off, Host=Off	OPC-UA: 0 File: 0	PostgreSQL fabguard@postgres_pinksalmon Open	pinksalmon Connected Remote Data: Waiting

User

The user that is logged into the system.

Active

Displays Active Alarms and Active Analyses counts.

Tool Comm

The status of the SECS communication from the FabGuard IPM to the Equipment and the Host.

Device Comm

The communication status of each connected device.

Database

The type, name, and status of the database connection.

Executive

The name of the FabGuard Executive assigned to this FabGuard IPM and it's connection status.



The Tool Tab

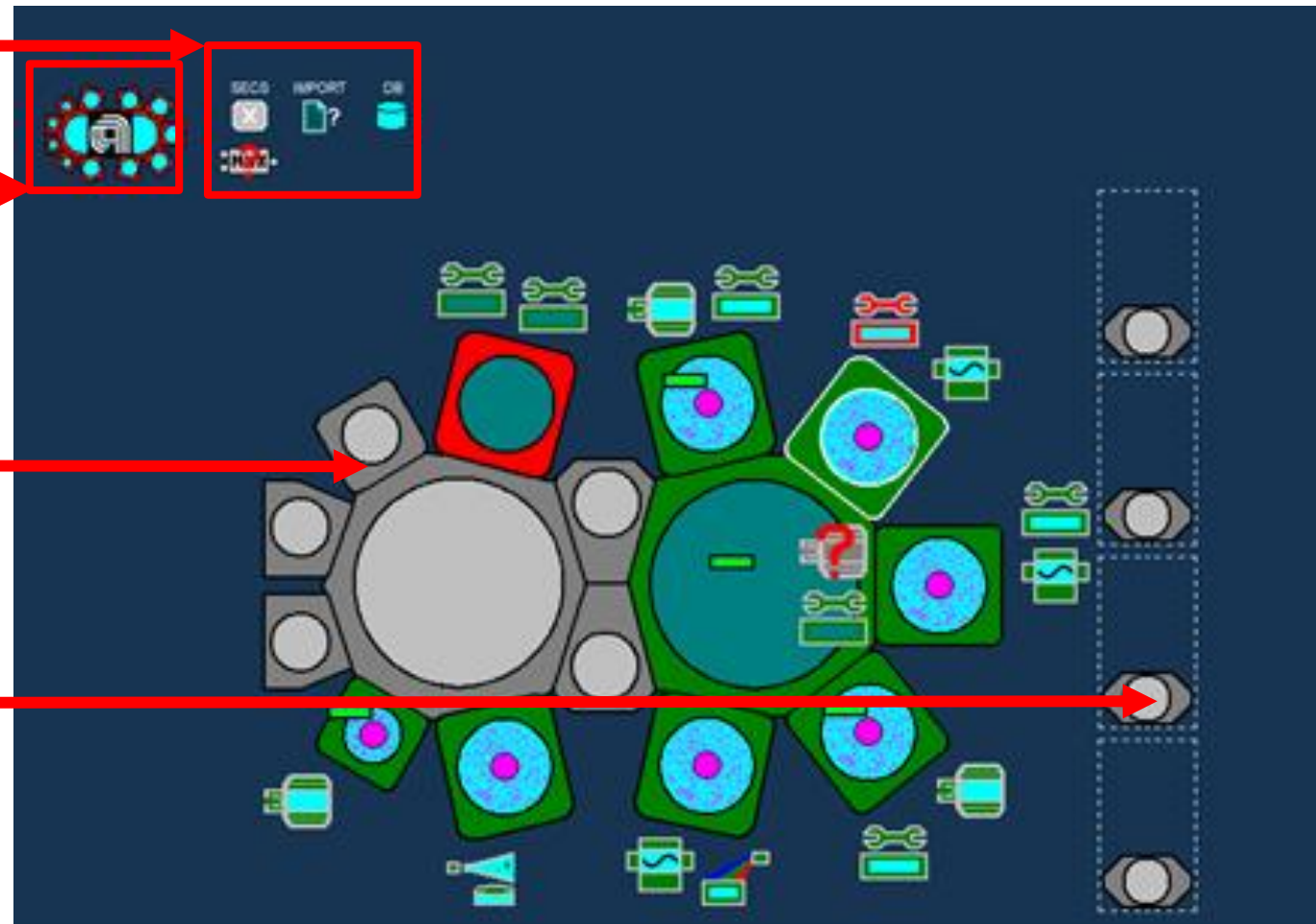
Main Screen

Comm Status Icons

Mini Tool Picture

Tool with Chambers and Sensors

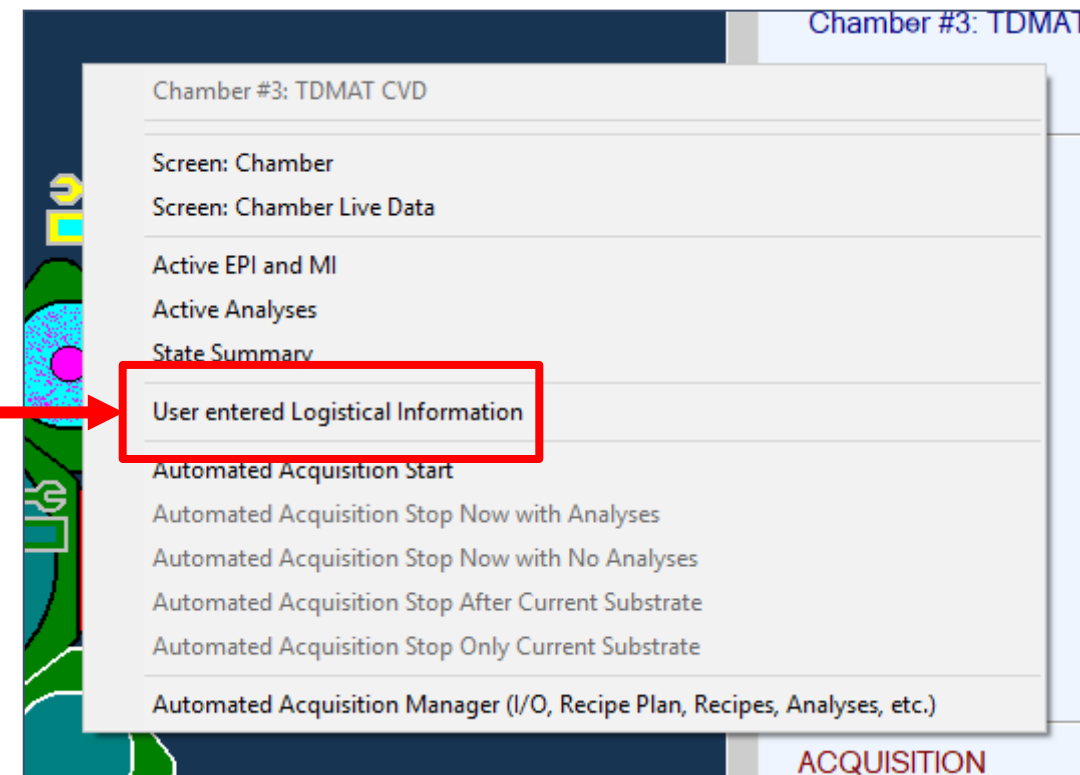
Optional Virtual Chambers



Start data acquisition from the Tool Tab

1- Right-click a **Chamber** that is not acquiring data.

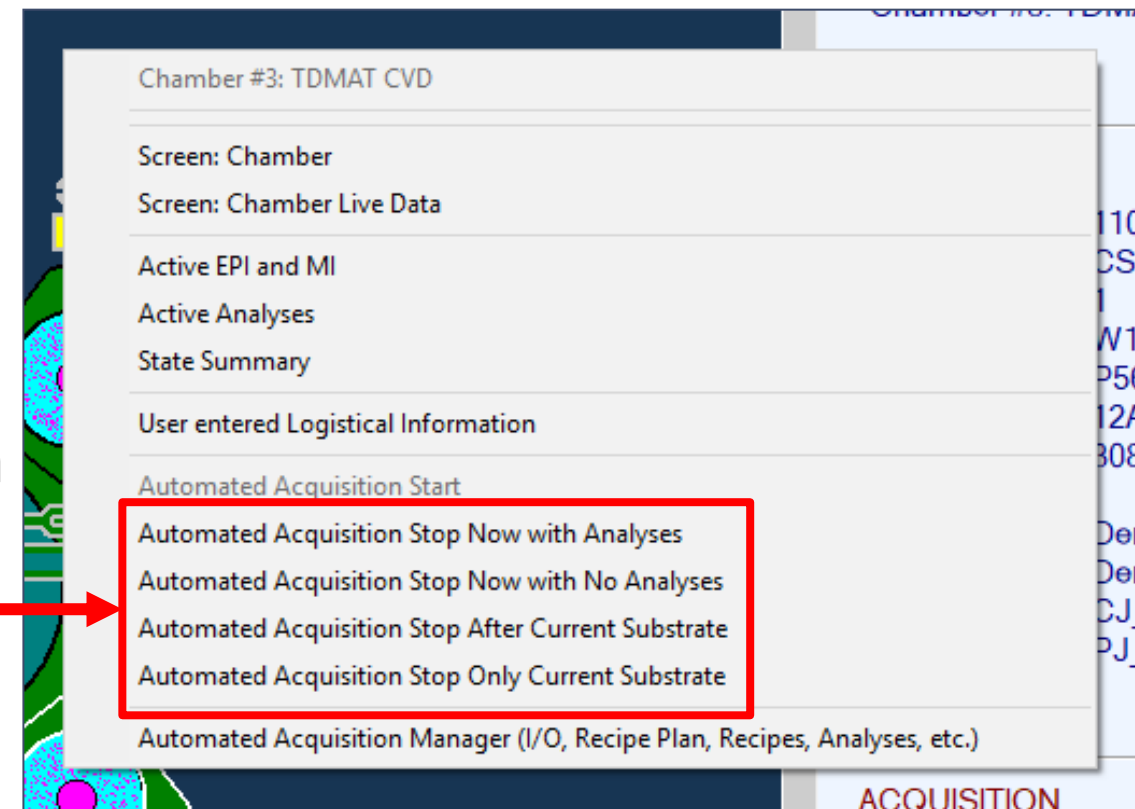
2- Select **Automated Acquisition Start** to collect data from a single Chamber.



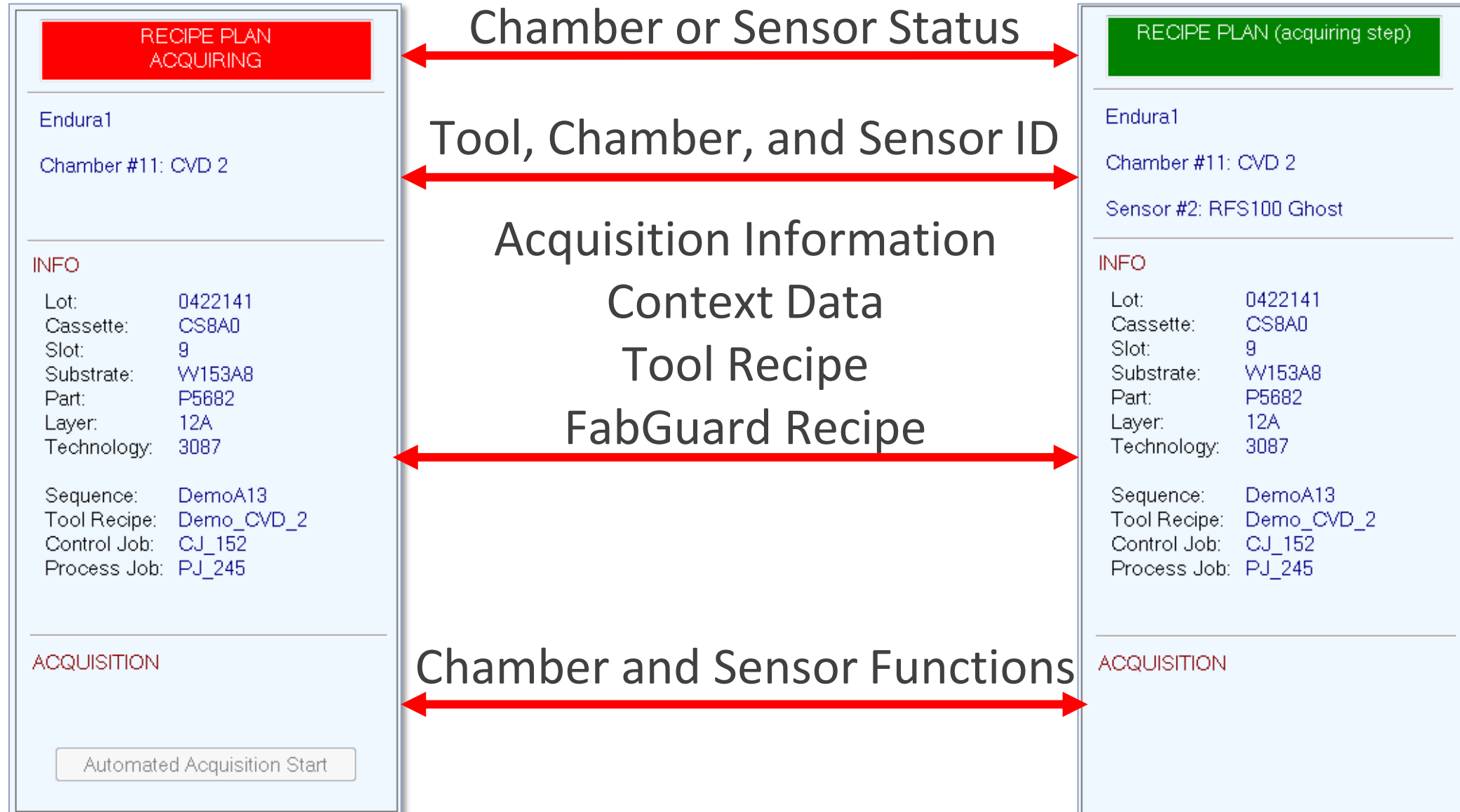
Stop data acquisition from the Tool Tab

1- Right-click a **Chamber** that is acquiring data.

2- Select **Automated Acquisition Stop** to end data collection.



Chamber and Sensor Status





The Chamber Tab

Viewing a Modified Report

Chamber selection

The screenshot displays a software interface with a menu bar at the top: User, Screens, Run, Acquisition, Reports, Maintenance, Configuration, Help. Below the menu bar is a toolbar with icons for Alarms and Alerts, Tool, Chamber, Sensor, Live Data, Runs, Multi Run Viewer, Reports & Models, and Help. A red arrow points to the 'Chamber' menu item, which has opened a dropdown menu showing 'Chamber: Chamber #1: TiN SIP PVD'. The main interface is divided into several sections:

- Heatmap:** A large green rectangular area representing a heatmap. The y-axis is labeled 'Heat' and the x-axis is labeled 'Time (MM/DD/YY-hh:mm:ss)'. The time range is from 11/06/17-13:39:08 to 11/07/17-13:42:32. The text 'auto' is in the top left, and 'X: 11/06-12:21:44 Y: 2.9576' is in the top right.
- State:** A bar chart showing the state of the system over time. The y-axis is labeled 'State'. The x-axis is the same as the heatmap. The chart shows a series of vertical bars, mostly purple, indicating 'Process Substrate', and a grey section at the end indicating 'Stopped'. The text 'auto' is in the top left.
- RECIPE PLAN ACQUIRING (6):** A green header for the recipe plan section.
- ACQUISITION INFO:** A section containing acquisition details:
 - Trigger: Acquisition 1 (main process)
 - Lot ID: 1107131
 - Cassette ID: CS8A0
 - Slot ID: 1
 - Substrate ID: W153_1107131.1
 - Part ID: P5682
 - Layer ID: 12A
 - Technology ID: 3087
 - Sequence ID: DemoA13
 - Recipe ID: Demo_TiN_SIP_PVD
- Automated Acquisition Start:** A button located below the acquisition info.
- SUMMARY more ...:** A section showing FabGuard states for the last 24.1 hours:
 - Stopped: 0.223 (5.4 hours)
 - Wait: 0.098 (2.4 hours)
 - Process Substrate: 0.680 (16.3 hours)

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The Sensor Tab

The Sensor Tab

Sensor selection



The screenshot displays the 'Sensor' tab in a software application. The sensor is identified as 'Chamber #1: TiN SIP PVD, Sensor #1: RGA C-100M Ghost'. The interface is divided into several sections:

- Top Panel:** A green bar indicating 'ACQUIRING STEP (11)' with 'Emission=?' and 'Multiplier=?'.
- RUN INFO:** A table of run parameters:

Lot ID:	1107131
Cassette ID:	CS8A0
Slot ID:	3
Substrate ID:	W153_1107131.3
Part ID:	P5682
Layer ID:	12A
Technology ID:	3087
Sequence ID:	DemoA13
- Step Table:**

Step	Point	Time (s)
1 of 2	44	64.28
- Dwell and Delay Times:**

Dwell (ms):	Bin	Delay Time (ms):	1429
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- REAL TIME:** A section for real-time monitoring.
- Select Bins to Plot:** A list of mass bins with checkboxes:
 - 18 amu (Water) = -8.4839e-14
 - 28 amu (Nitrogen) = 4.7512e-11
 - 40 amu (Argon) = 1.2547e-10
 - selected shown first —
 - Ionizer State = 2
 - Pressure = 0.00085488
 - 2 amu (Hydrogen) = 7.5154e-13
 - 4 amu (Helium) = 2.7497e-14
 - 15 amu (None) = -2.8805e-14
 - 17 amu (Water) = -1.2405e-13
 - 31 amu (None) = -2.5664e-14
 - 32 amu (Oxygen) = -2.7605e-13
 - 41 amu (None) = 9.1653e-14

The left side of the interface features two plots:

- Raw Plot:** Shows 'Raw' signal vs 'Mass' (0 to 80). The y-axis ranges from 0 to 1.5e-10. A prominent peak is visible at approximately mass 40.
- Signal Plot:** Shows 'Signal' vs 'Time (s)' (0 to 120). The y-axis ranges from 0 to 3e-09. A sharp red peak is visible at the beginning of the run (around 5 seconds).

Thank You!

In this module, you have learned:

- Launch FabGuard IPM from the Desktop
- Login/Logout of FabGuard IPM
- Exit FabGuard IPM
- Navigate the Main Screen
- Start and Stop Automated Data Acquisition

Thank You!

You have completed the
Navigating FabGuard Web module!

You may come back and review the
content of this module at any time.

Contact Information



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