



# Navigating FabGuard Web

Module FG 0101

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 Display, Control, and Navigation panes of the FabGuard Web main screen

# Objective

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

- Launch FabGuard Web
- Log in/out of FabGuard Web
- Launch FabGuard Help
- Configure the log out and refresh timers
- Expand and collapse the Navigation pane
- Expand and collapse the Control pane
- Explore the information in each Display tab

# Outline

- 1 Launching FabGuard Web from the Desktop
- 2 Changing Log out and Refresh Timers
- 3 The Main Screen
- 4 The Fab Tab
- 5 The Group Tab
- 6 The Tool Tab

**1**

# Launching FabGuard Web from the Desktop

# Launching FabGuard Web using the URL

# Launching FabGuard Web using the Desktop icon



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



**Log in**

User name:

Password:

Log in      Cancel

2- Enter your user name and password when the login section appears.



# Launching FabGuard Web using the URL

## Supported Browsers

- Chrome
- Firefox
- Microsoft Edge

## URL

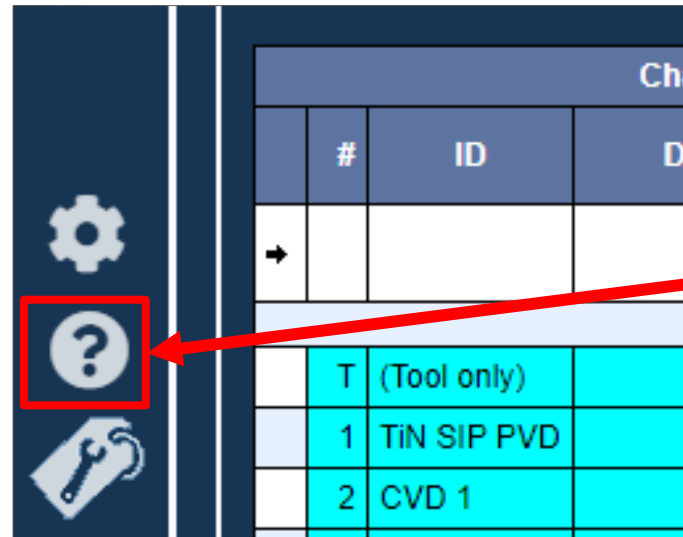
`http://servername/fabguard/fgweb.htm`

# Log out of FabGuard Web

Hover and click to **Log out.**

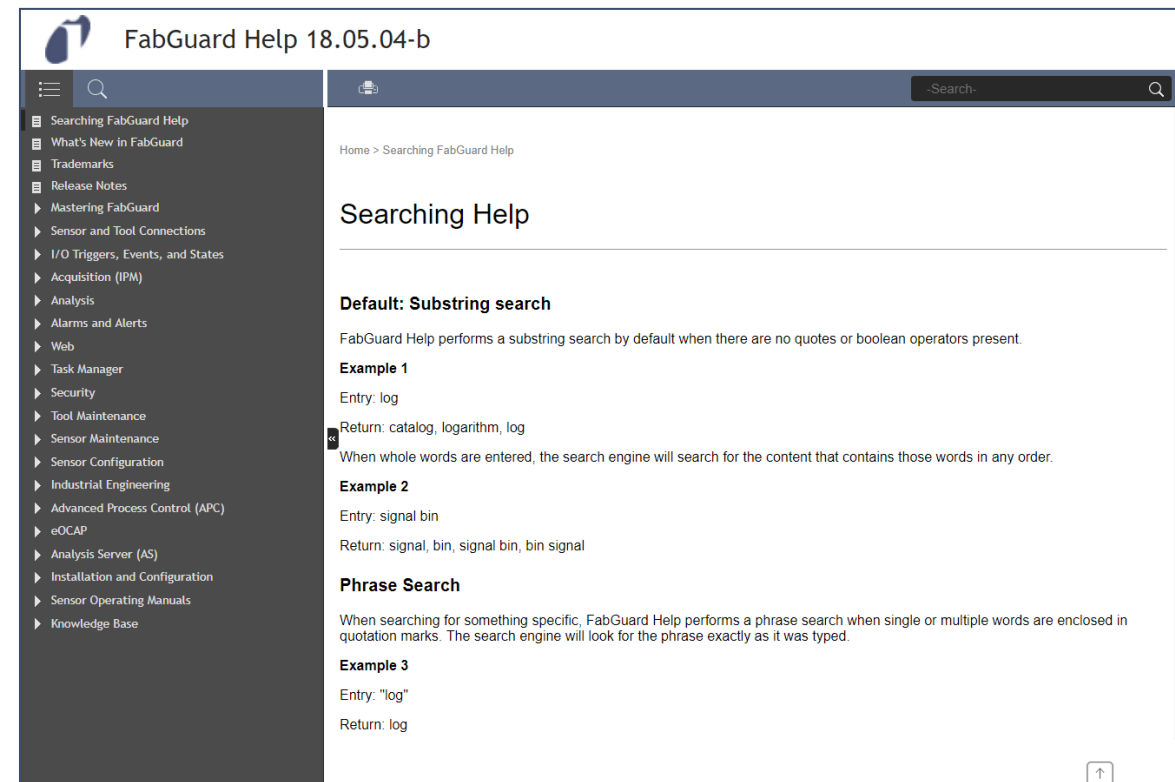


# Launch FabGuard Help



1- Click Help.

2- FabGuard Help opens in a new browser window.



**2**

## **Changing Log out and Refresh Timers**



# Changing the Timing

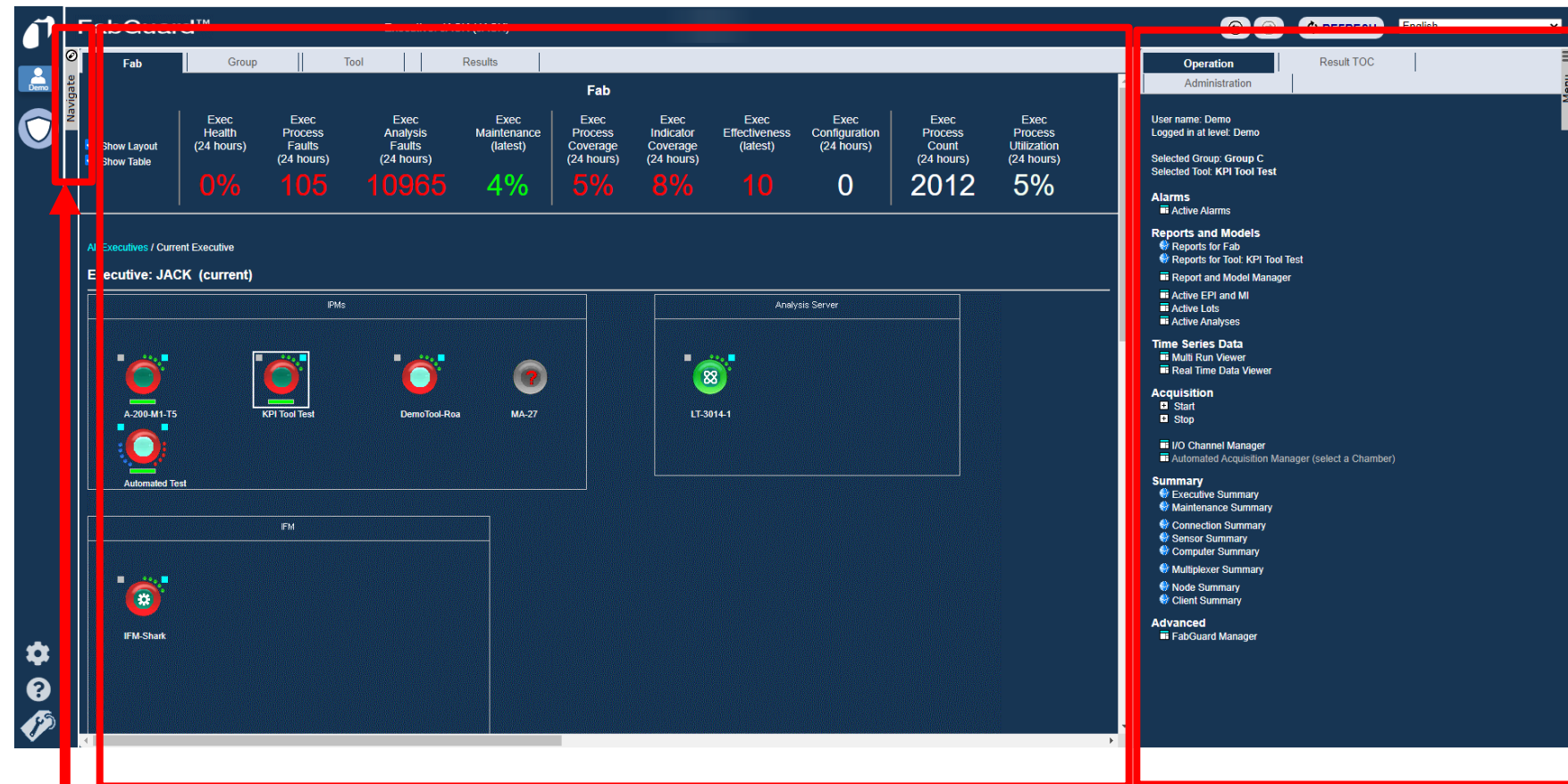
The screenshot shows a settings window titled 'My Settings' with a dark blue background. At the top, there are tabs for 'Fab', 'Group', 'Tool', and 'Results'. The 'Results' tab is selected. Below the tabs, the 'Screen update' setting is shown with a text input field containing '600' and a checked checkbox labeled 'Override default'. A red box highlights the input field and checkbox, with a red arrow pointing to the 'Override default' checkbox. Below this, the 'Automatic logout' setting is shown with a text input field containing '28800' and a checked checkbox labeled 'Override default'. A red box highlights the input field and checkbox, with a red arrow pointing to the 'Override default' checkbox. At the bottom of the dialog, there are two buttons: 'SAVE' with a green checkmark icon and 'CANCEL' with a red X icon.

- 1- Select **Override default** and then enter the **number of seconds** between screen updates
- 2- Repeat step 1 for Automatic logout



# The Main Screen

# Main Screen



Navigation

Display

Control

# Navigation Pane

The screenshot shows the FabGuard™ software interface. The navigation pane on the left is highlighted with a red box and contains the following structure:

- Executive: JACK
  - Group A
    - A-200-M1-T5 (JACK, 10.1.1.15)
    - Automated Test (test8, 10.1.1.208)
    - Demo Tool-Roa (roa, 10.1.1.52)
  - Group C
    - KPI Tool Test (sculpin, 10.1.1.22)**
    - MA-27 (SCULPIN, 10.1.1.39) (not)
  - Group Other

The main dashboard displays the following data for 'Executive: JACK (current)':

Group	Tool	Results
Fab		
Exec Health (24 hours)	Exec Process Faults (24 hours)	Exec Analysis Faults (24 hours)
0%	108	11280
Exec Maintenance (latest)	Exec Process Coverage (24 hours)	Exec Indicator Coverage (24 hours)
4%	5%	8%
Exec Effectiveness (latest)	Exec Configuration (24 hours)	Exec Process Count (24 hours)
10	0	2026
Exec Process Utilization (24 hours)		5%

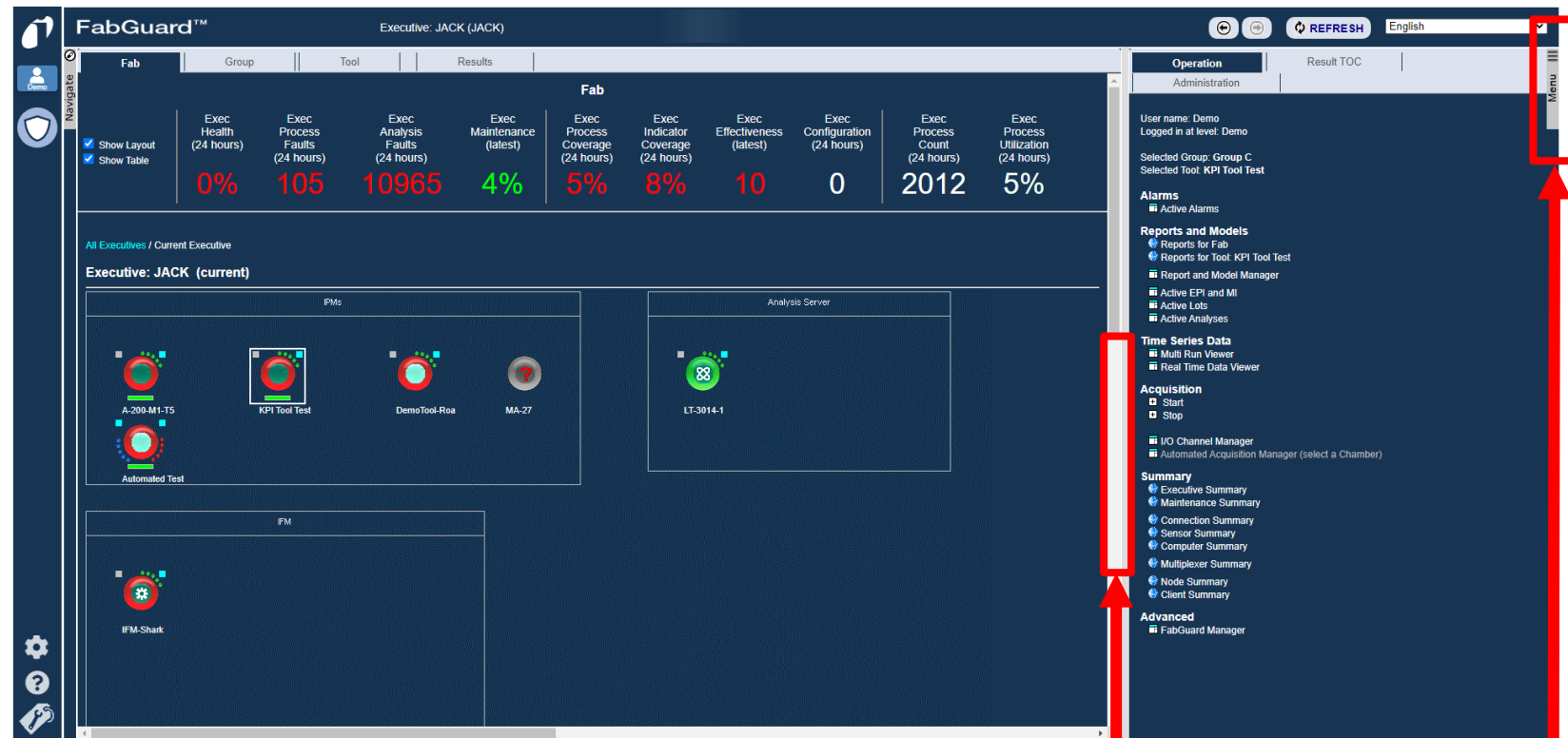
The detailed view for 'KPI Tool Test' shows the following components:

- IPMs: A-200-M1-T5, KPI Tool Test, Demo Tool-Roa, MA-27, Automated Test
- Analysis Server: LT-3814-1
- IFM: IFM-Shark

The right sidebar contains the following sections:

- Operation: Administration, Result TOC
- User name: Demo, Logged in at level: Demo
- Selected Group: Group C, Selected Tool: KPI Tool Test
- Alarms: Active Alarms
- Reports and Models: Reports for Fab, Reports for Tool: KPI Tool Test, Report and Model Manager, Active EPI and MI, Active Lots, Active Analyses
- Time Series Data: Multi Run Viewer, Real Time Data Viewer
- Acquisition: Start, Stop, I/O Channel Manager, Automated Acquisition Manager (select a Chamber)
- Summary: Executive Summary, Maintenance Summary, Connection Summary, Sensor Summary, Computer Summary, Multiplexer Summary, Node Summary, Client Summary
- Advanced: FabGuard Manager

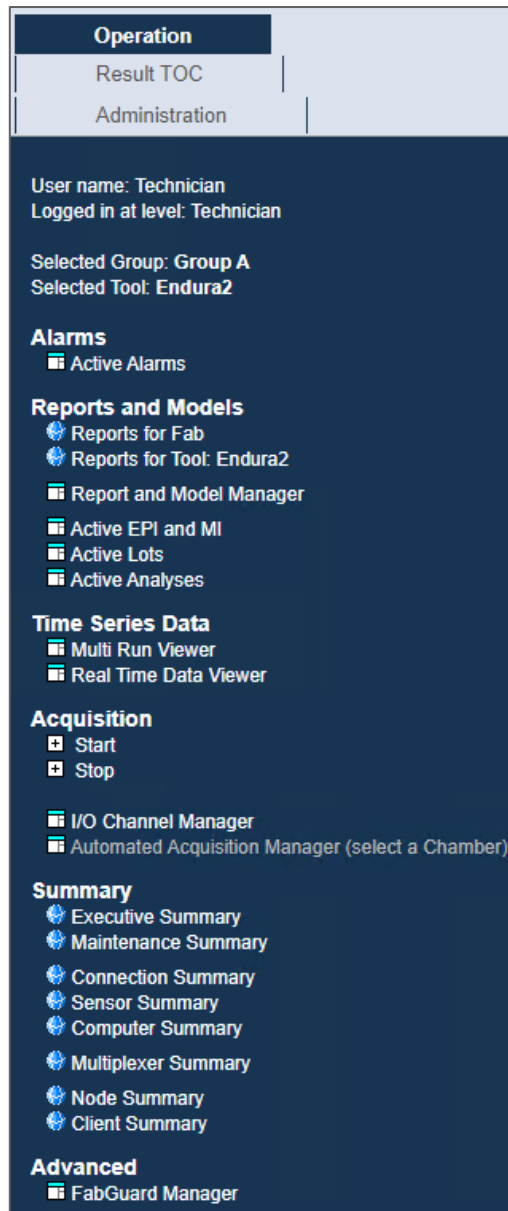
# Control Pane



Pane Separator

Menu

# Operation Control Tab



## Alarms

View, clear, and delete alarms.

## Reports and Models

View, create, and execute a variety of reports and models.

## Time Series Data

View and analyze single or multiple run files. View data collection in real-time.

## Acquisition

Start, stop, and configure data collection.

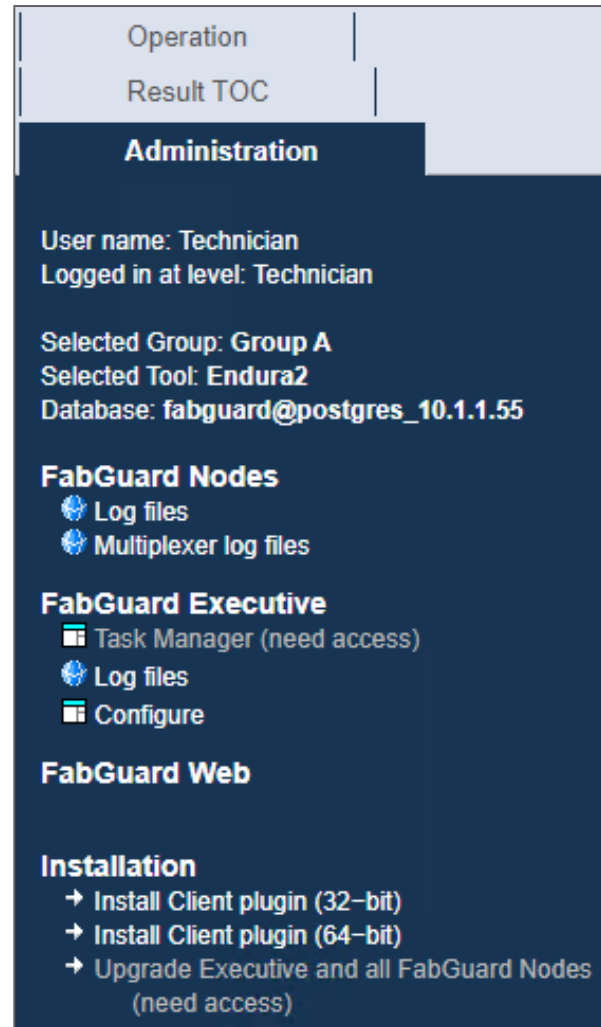
## Summary

Quickly generate various summary reports.

## Advanced

Use the FabGuard Manager for advanced acquisition functions such as dictionary and deployment.

# Administration Control Tab



## FabGuard Nodes

View Node or MUX log files.

## FabGuard Executive

Create tasks to generate Reports or maintain the system, view FabGuard Executive log files, or configure IT parameters.

## FabGuard Web

Configure banner and my settings or view current system users.

## Installation

Install the FabGuard Client plugin or perform a system wide upgrade.

# Display Pane

The screenshot displays the FabGuard™ software interface. At the top, the title bar shows 'FabGuard™' and 'Executive: JACK (JACK)'. Below this is a navigation bar with tabs for 'Fab', 'Group', 'Tool', and 'Results'. A red box highlights the 'Fab' tab. The main dashboard area is divided into several sections:

- Summary Metrics:** A row of metrics with checkboxes for 'Show Layout' and 'Show Table'.

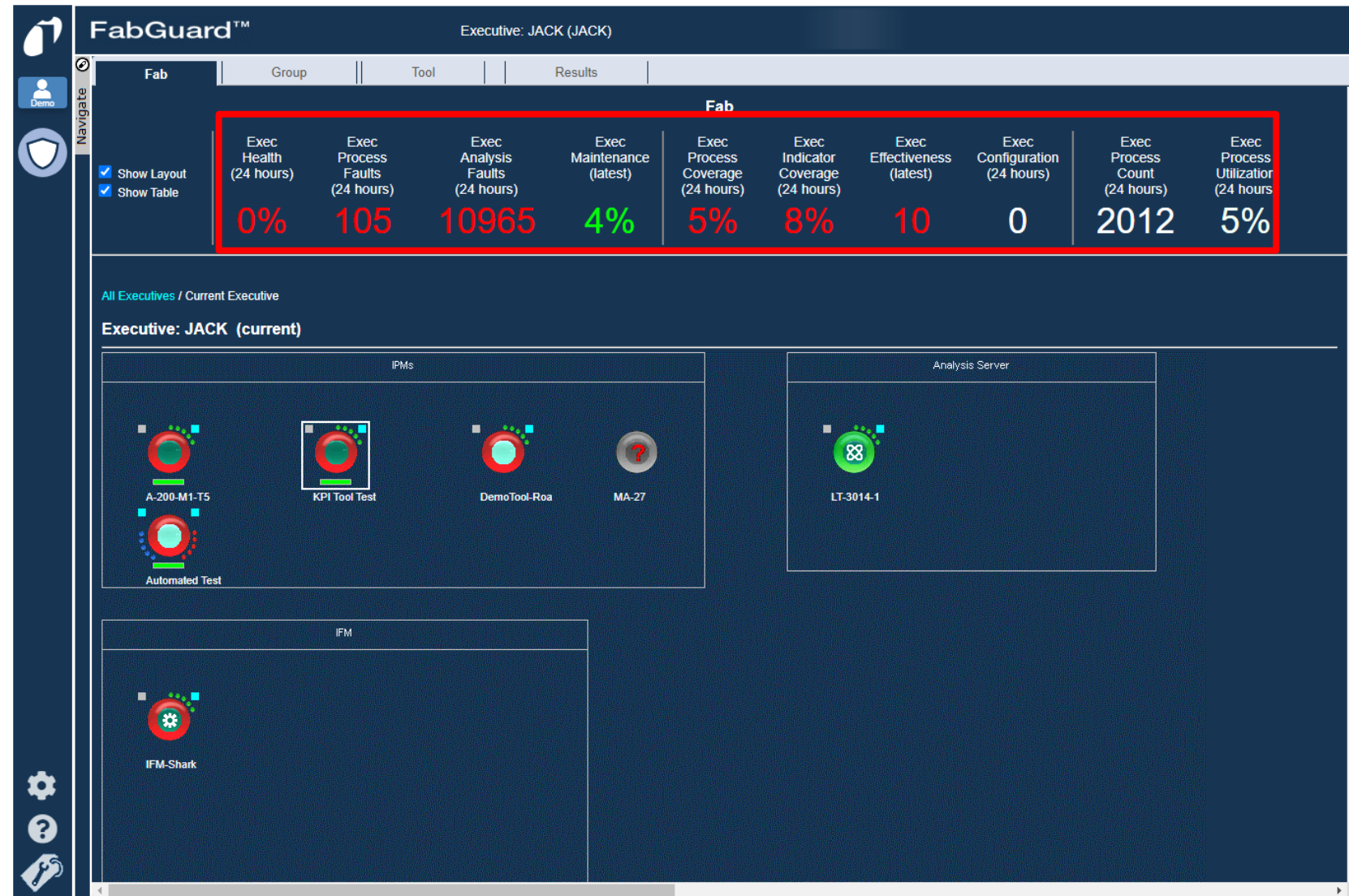
Metric	Value
Exec Health (24 hours)	0%
Exec Process Faults (24 hours)	105
Exec Analysis Faults (24 hours)	10965
Exec Maintenance (latest)	4%
Exec Process Coverage (24 hours)	5%
Exec Indicator Coverage (24 hours)	8%
Exec Effectiveness (latest)	10
Exec Configuration (24 hours)	0
Exec Process Count (24 hours)	2012
Exec Process Utilization (24 hours)	5%
- Executive: JACK (current):** A section titled 'All Executives / Current Executive' showing the current executive's status.
- IPMs:** A section containing four tool status indicators: A-200-M1-T5, KPI Tool Test, DemoTool-Roa, and MA-27. Each indicator is represented by a circular gauge with a red border and a green center.
- Analysis Server:** A section containing one tool status indicator: LT-3014-1, represented by a circular gauge with a green border and a white center.
- IFM:** A section containing one tool status indicator: IFM-Shark, represented by a circular gauge with a red border and a white center.

The interface includes a sidebar on the left with navigation icons (home, demo, shield) and a bottom sidebar with settings, help, and search icons.




# The Fab Tab

# Fab KPIs



# Fab KPIs Click



Return to Fab

Exec Health  
(24 hours)

18%

Exec Process Faults  
(24 hours)

13

Exec Analysis Faults  
(24 hours)

13

Exec Maintenance  
(latest)



0%

Exec Process Coverage  
(24 hours)

25%

Updated 09/28/2021 16:04:52 (1 minute ago)

**Process Faults History** ?

Group ID	09-22-2021	09-23-2021	09-24-2021	09-25-2021	09-26-2021	09-27-2021	Last 24 hours
Endura Automation							
Endura Process	410	1287	1277	1276	1276	1034	13
Endura Servers							
Endura Subfab							

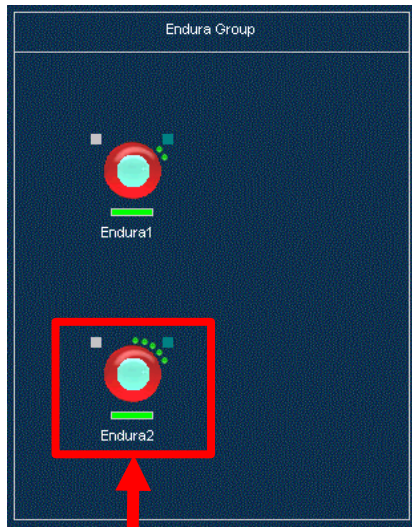
# Fab Layout

The screenshot displays the FabGuard™ dashboard for Executive: JACK (JACK). The interface includes a navigation sidebar on the left with icons for Demo, a shield, and settings. The main content area is divided into several sections:

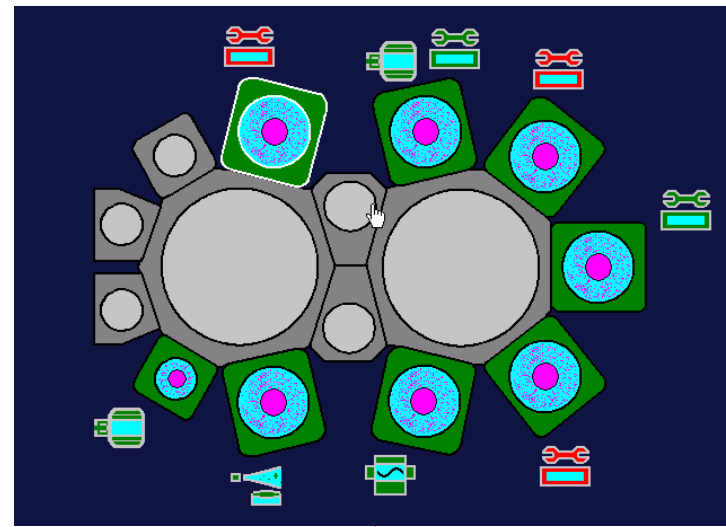
- Executive Summary:** A table of key performance indicators (KPIs) for the Fab. The 'Show Layout' and 'Show Table' options are checked and highlighted with a red box.
- Navigation:** A link for 'All Executives / Current Executive' is highlighted with a red box.
- Current Executive:** A section for 'Executive: JACK (current)' containing three panels:
  - IPMs:** A grid of five circular gauges representing different IPMs: A-200-M1-T5, KPI Tool Test, DemoTool-Roa, MA-27, and Automated Test.
  - Analysis Server:** A panel containing one gauge labeled LT-3014-1.
  - IFM:** A panel containing one gauge labeled IFM-Shark.

Fab										
Exec Health (24 hours)	Exec Process Faults (24 hours)	Exec Analysis Faults (24 hours)	Exec Maintenance (latest)	Exec Process Coverage (24 hours)	Exec Indicator Coverage (24 hours)	Exec Effectiveness (latest)	Exec Configuration (24 hours)	Exec Process Count (24 hours)	Exec Process Utilization (24 hours)	
0%	105	10965	4%	5%	8%	10	0	2012	5%	

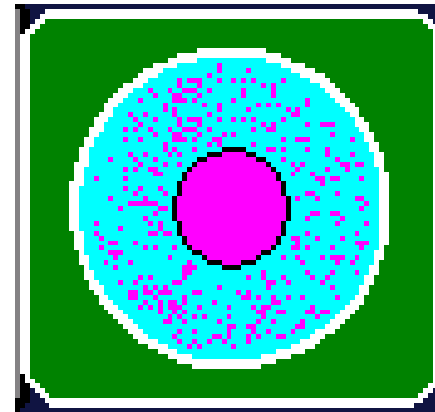
# From Tool to Desktop



Selected Tool



Tool Layout






Chamber

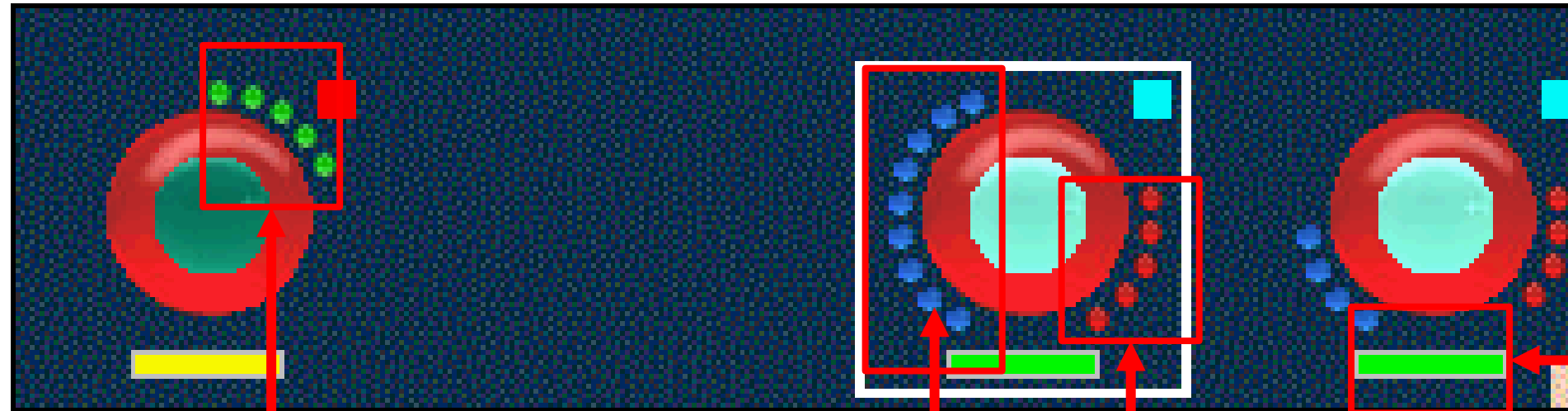


Sensor

# Small Tool Icons

Icon	Chamber State	Alarm State
	No chambers running	No alarms
	No chambers running	Most severe alarm level is moderate
	No chambers running	Most severe alarm level is critical
	One or more chambers running	No alarms
	One or more chambers running	Most severe alarm level is moderate
	One or more chambers running	Most severe alarm level is critical
	Not connected to FabGuard Executive	
	Not in the selected Tool Group	

# Large Tool Icons



**Dots-** Analyses are within levels.

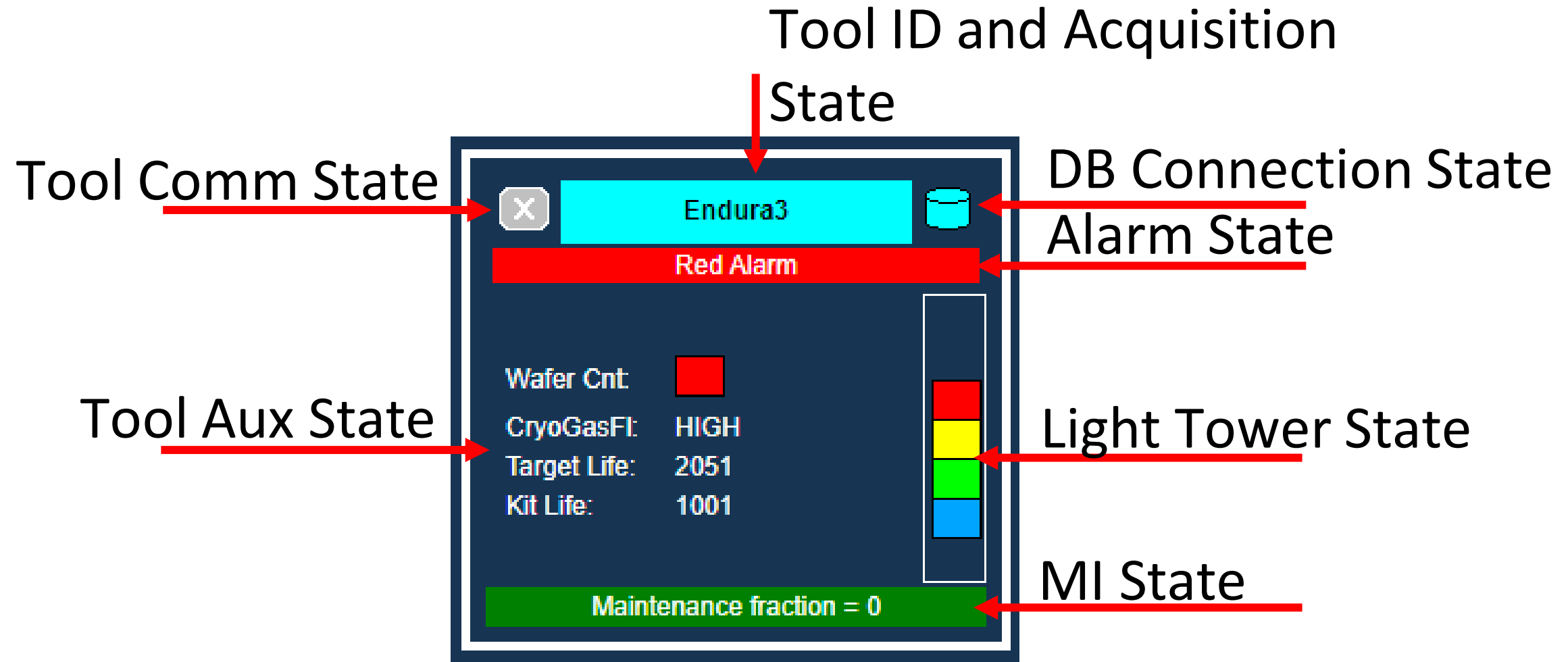
**Square-** Status of SECS connection.

**Dots-** Worst active analysis on tool.

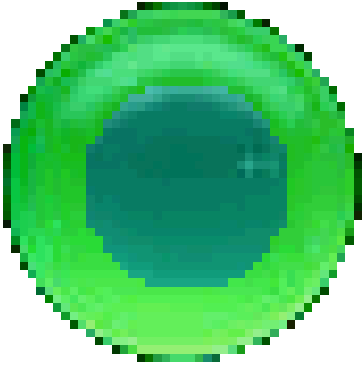
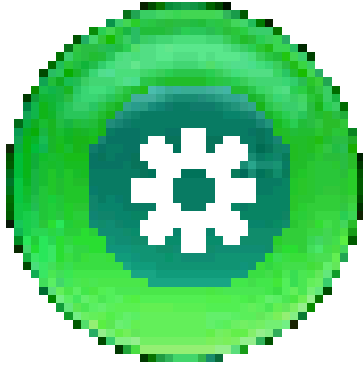
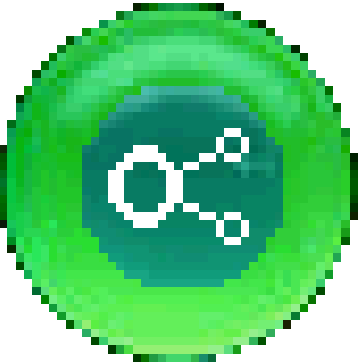
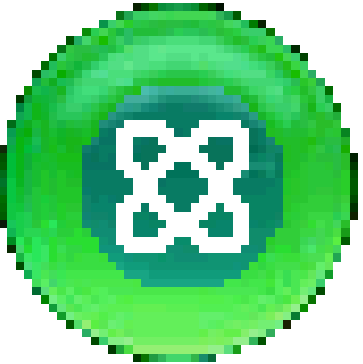
**Dots-** Tool utilization.

**Bar-** Worst MI analysis for tool.

# Extra Large Tool Icons



# Tool Icons by Node

IPM	FM	CON	AS/AN
			




# Fab Table

Table									
Summary / Details									
Executive	Group	Tool Status	Chamber Status	Sensor Status	Alarm Count	Alert Count	Health 24 hours	Maintenance	
								Overall	Sensor
JACK	Group A	1 Stopped 0 Waiting 2 Acquiring	9 Stopped 4 Waiting 3 Acquiring  Earliest start: 2021/10/01 15:45:06 Latest start: 2021/10/01 15:46:19	17 OK	1764 Red 88 Yellow 115 Blue	0 Red 0 Yellow 0 Blue 0 Event	0.00	0.00%	0.00%
JACK	Group C	1 Not Connected 1 Stopped 0 Waiting 0 Acquiring	2 Stopped 0 Waiting 0 Acquiring	2 OK	1021 Red 0 Yellow 2 Blue	0 Red 0 Yellow 0 Blue 0 Event		3.52%	
ORCA	Group Other	1 Not Connected 0 Stopped 0 Waiting 0 Acquiring	0 Stopped 0 Waiting 0 Acquiring	0 OK	0 Red 0 Yellow 0 Blue	0 Red 0 Yellow 0 Blue 0 Event			

**5**

# The Group Tab

# Group Layout

Fab	Group		Tool	Results											
	<b>Group: Group A</b>														
<input checked="" type="checkbox"/> Show Layout <input checked="" type="checkbox"/> Show Table	Health (24 hours)	Process Faults (24 hours)	Analysis Faults (24 hours)	Maintenance (latest)	Process Coverage (24 hours)	Indicator Coverage (24 hours)	Effectiveness (latest)	Configuration (24 hours)	Process Count (24 hours)	Process Utilization (24 hours)					
	0%	128	13337	0%	6%	7%	10	0	2146	19%					
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">             A-200-M1-T5         </div> <div style="text-align: center;">             Automated Test         </div> <div style="text-align: center;">             DemoTool-Roa         </div> </div>															
<b>Table</b>															
<a href="#">Summary / Details</a>															
Tool			Status				KPI (Updated 1 minute ago)								
ID	Description	Area	Lot	Recipe	Alarms R/Y/B	Alerts R/Y/B/G	Health (24 hours)	Process Faults (24 hours)	Analysis Faults (24 hours)	MI % (latest)	Process Coverage (24 hours)	Indicator Coverage (24 hours)	Cpk (latest)	Effectiveness (latest)	Cor (24 hours)
→ A-200-M1-T5					838 / 0 / 103		100%	0	0	0.00%	0.00%	0.00%	0.00	30	
Automated Test			100115-194	Demo_1, Demo_2	931 / 85 / 8		0%	128 (10.13%)	13337 (39.64%)	0.00%	10.13%	38.59%	331.35	10	
DemoTool-Roa	DemoToolDescription Roa	DemoToolArea	10011514-60	DemoRecipe_2	2 / 0 / 0			0			0.00%	0.00%		30	

# Group Table

Table																
Summary / Details																
Tool				Status				KPI (Updated 1 minute ago)								
	ID	Description	Area	Lot	Recipe	Alarms R/Y/B	Alerts R/Y/B/G	Health (24 hours)	Process Faults (24 hours)	Analysis Faults (24 hours)	MI % (latest)	Process Coverage (24 hours)	Indicator Coverage (24 hours)	Cpk (latest)	Effectiveness (latest)	Cor (2)
→	A-200-M1-T5					838 / 0 / 103		100%	0	0	0.00%	0.00%	0.00%	0.00	30	
	Automated Test			100115-194	Demo_1, Demo_2	931 / 85 / 8		0%	128 (10.13%)	13337 (39.64%)	0.00%	10.13%	38.59%	331.35	10	
	DemoTool-Roa	DemoToolDescription Roa	DemoToolArea	10011514-60	DemoRecipe_2	2 / 0 / 0			0			0.00%	0.00%		30	



# The Tool Tab

# Tool Tab Controls

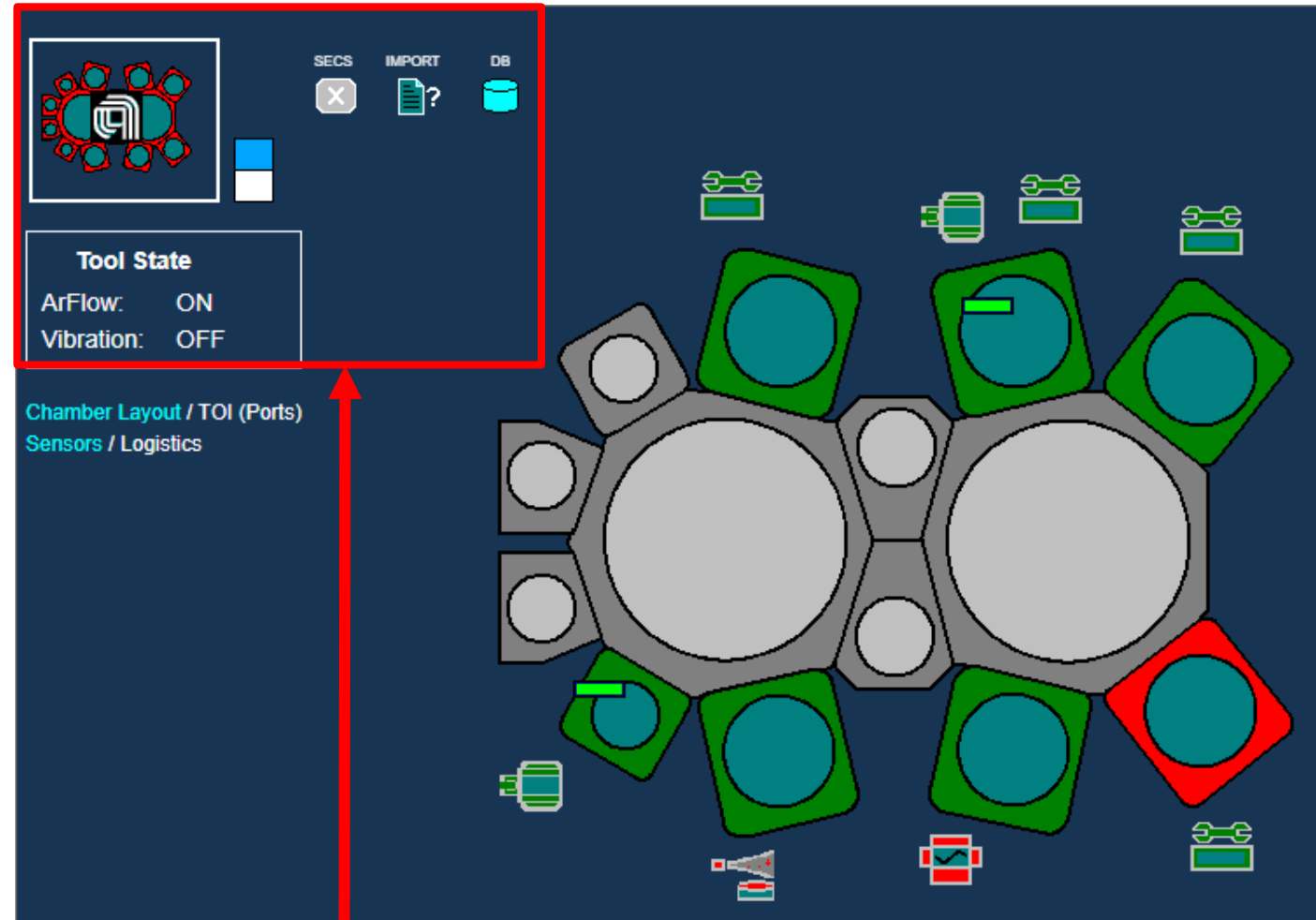
Fab	Group	Tool	Results				
Tool: SPT05 [Applied: 5500 Endura 200mm]							
<input checked="" type="checkbox"/> Show Layout <input checked="" type="checkbox"/> Show Facilities <input checked="" type="checkbox"/> Show Table <input checked="" type="checkbox"/> Show Alarms <input checked="" type="checkbox"/> Show Alerts	Health (24 hours) <b>0%</b>	Process Faults (24 hours) <b>6</b>	Analysis Faults (24 hours) <b>12</b>	Maintenance (latest) <b>0%</b>	Process Coverage (24 hours) <b>25%</b>	Indicator Coverage (24 hours) <b>1%</b>	Effecti (lat) <b>2</b>

SECS IMPORT DB

Chamber Layout / TOI (Ports)  
Sensors / Logistics

# Tool Layout (IPM)



Miniature Tool picture and communication status icons

# Tool Layout (IPM)

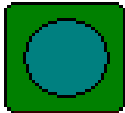
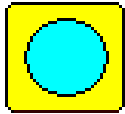
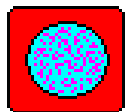
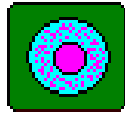

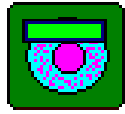
Show  
logistics



The screenshot displays the IPM software interface. At the top left, there is a logo and a status bar with 'SECS', 'IMPORT', and 'DB' icons. Below the logo is a 'Tool State' panel with 'ArFlow: ON' and 'Vibration: OFF'. A red-bordered menu titled 'Chamber Layout / TOI (Ports) Sensors / Logistics' is highlighted, containing the following options:  Lot ID,  Cassette ID,  Slot ID,  Substrate ID,  Start Time,  Sequence ID, and  Recipe ID. The main area shows a circular tool layout with eight chambers, each with a data box: 

- Ch# 5 (Preclean C): Lot ID: 100117-1, Slot ID: 1, Recipe ID: Demo\_5
- Ch# 1 (TiN SIP PVD): Lot ID: 100117-1, Slot ID: 1, Recipe ID: Demo\_1
- Ch# 2 (Cobalt PVD): Lot ID: 100117-1, Slot ID: 1, Recipe ID: Demo\_2
- Ch# 8 (Degas): Lot ID: 100117-1, Slot ID: 1, Recipe ID: Demo\_8
- Ch# 6 (Preclean D): Lot ID: 100117-1, Slot ID: 1, Recipe ID: Demo\_6
- Ch# 3 (TDMAT CVD): Lot ID: 100117-1, Slot ID: 1, Recipe ID: Demo\_3

# Chamber Icons

Icon	Chamber State (inner)	Alarm State (outer)
	Idle chamber	No alarms
	Waiting chamber	Most severe alarm level is moderate
	Processing, no wafer	Most severe alarm level is critical
	Processing, wafer present	No alarms
	Not configured	
	Processing, wafer present	No alarms, Maintenance Indicator bar indicates MI and EPI are good

# Tool Facility

Control Panel:

- Show Chambers
- Show Pumps
- Show Abatement
- Color Legend

Etch Tool 1-1: Controlled by Fab

Etch Tool 1-2: Controlled by Fab

Pump Rack: Subfab Rack 1

Ch 1: Main SN 1 (REMOTE), Boost SN 2






Ch 2: Main SN 1 (LOCAL), Boost SN 2

Commands are prohibited at this location.


Display Controls

# Tool Alarms

Unique Alarms for the last 24 hours (max 25)

	Time	Type / Summary / Source
	01/30/2020 15:22:25	Analysis - SPC RbR above USL Critical RF Power Ratio During Dep Value=1.0007 above USL=0.98917 in Load 1 of Test Audit Tab Chamber #11: CVD 2 (TDS Training Chamber)
	01/30/2020 15:22:25	Analysis - SPC RbR above USL Critical RF Power Ratio Value=1.0006 above USL=0.99, 3 times (MofNinT = 2of3in15) in Load 1 of RF Power Ratio (All Enduras, Chambers 2 and 11) Chamber #11: CVD 2 (TDS Training Chamber)
	01/30/2020 15:22:25	Analysis - SPC RbR above USW Moderate RF Power Ratio Value=0.99635 above USW=0.95483 in Load 1 of Test RF Power Ratio (All Enduras, Chambers 2 and 11) Chamber #11: CVD 2 (TDS Training Chamber)
	01/30/2020 15:22:25	Analysis Engine - Required Figure of Merit not analyzed Water Temp During Dep Chamber #11: CVD 2 (TDS Training Chamber)
	01/30/2020 15:22:25	Analysis Engine - Required Figure of Merit not analyzed RF Forward During Dep Chamber #11: CVD 2 (TDS Training Chamber)

Print Close

 07/25/2017 11:56:53  
Analysis - SPC RbR above UCW Moderate  
Merit Value=79.33 above UCW=62.081 in Golden Envelope - Merit - X-bar S set  
Tool: Endura3, Chamber #11: CVD 2 (TDS Training Chamber)

Type: Analysis - SPC RbR above UCW Moderate  
Time: 07/25/2017 11:56:53  
ID: 901  
Class: Yellow  
Source: Tool: Endura3, Chamber #11: CVD 2 (TDS Training Chamber)  
Start Time: 07/25/2017 11:54:28  
Lot ID: 071809119  
Cassette ID: CS8A18  
Slot ID: 6  
Substrate ID: W153\_071809119.6  
Part ID: P5682  
Layer ID: 12A  
Technology ID: 3087  
Operator ID: John Doe  
Sequence ID: DemoA13  
Recipe ID: Demo\_TDS\_Training\_Chamber  
Control Job ID: CJ\_152  
Process Job ID: PJ\_245  
Extra 1 ID: Ex1  
Extra 2 ID: Ex2  
Extra 3 ID: Ex3  
Extra 3 ID: Ex4  
Extra 3 ID: Ex5  
undefined Name: Golden Envelope - Merit - X-bar S set  
Figure of Merit: Merit  
Figure of Merit Model: Golden Envelope

Clicking an individual Alarm will display the Alarm details in the Results tab.

# Tool Alerts

The image shows a software interface for tool alerts. On the left, a dark blue panel titled "Unique Alerts for the last 24 hours (max 25)" contains a table with three columns: "Time", "Message", and an icon column. The table lists three alerts: a green downward arrow icon for "100: Demo Tool Event 3" at "10/12/2017 13:01:59", a red downward arrow icon for "11: Demo Tool Alarm 2" at "10/12/2017 13:01:57", and a yellow warning triangle icon for "5: Demo Tool Alarm 1" at "10/12/2017 13:01:56". A red box highlights the second row. A red arrow points from this row to a detailed alert window on the right. This window has tabs for "Fab", "Group", "Tool", and "Results", with "Results" selected. It contains a "Print" button and a "Close" button. The alert details are: a red downward arrow icon, the time "07/25/2017 15:04:10", and the message "11: Demo Tool Alarm 2". Below this, the following fields are listed: "Time: 07/25/2017 15:04:10", "Class: Red", "Source: Endura3", and "Message: 11: Demo Tool Alarm 2".

Icon	Time	Message
▼	10/12/2017 13:01:59	100: Demo Tool Event 3
▼	10/12/2017 13:01:57	11: Demo Tool Alarm 2
⚠	10/12/2017 13:01:56	5: Demo Tool Alarm 1

Print Close

▼ 07/25/2017 15:04:10  
11: Demo Tool Alarm 2

Time: 07/25/2017 15:04:10  
Class: Red  
Source: Endura3  
Message: 11: Demo Tool Alarm 2

Clicking an individual Alert will display the Alert details in the Results tab.

# Thank You!

## In this module, you have learned:

- Launch FabGuard Web
- Log in/out of FabGuard Web
- Launch FabGuard Help
- Configure the log out and refresh timers
- Expand and collapse the Navigation pane
- Expand and collapse the Control pane
- Explore the information in each Display tab

# 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



If you have any questions about this module, please contact Michael Neel:

[michael.neel@inficon.com](mailto:michael.neel@inficon.com)

617.527.1219