



Mercedes-Benz Integrated ANDON System 1.0



Mercedes-Benz

CONTROL CENTER

How to start?

- Right click on chrome icon and click on 'New incognito window'.
- Click on bookmark named – iProdMercedesBenz or type URL as : 192.168.0.248:8080/iProdMercedesBenz/
- You should be have a login page open in front of you.

LOGIN PAGE

- Enter username : iprod_master & password : password then click on login button.
- Once you are logged in, home page will appear.

The image shows the Mercedes-Benz India login page. The background features a high-speed photograph of a silver Mercedes-Benz SLS AMG sports car driving on a road under a cloudy sky. In the top right corner, the Mercedes-Benz logo is displayed. The top center has the text "Mercedes-Benz India". On the left side, there is a login form with fields for "Username" and "Password", and a "Login" button. Two orange callout boxes with arrows point to these fields: one labeled "Enter username" points to the Username field, and another labeled "Enter password" points to the Password field. At the bottom left, there is a "powered by iPROD™ smart connected enterprise platform" logo. At the bottom center, the text "All rights reserved. © Copyright 2018 iD4 Realms." is visible. At the bottom right, the date and time "June 05, 2018 | 03:33:26 PM" are shown.

Mercedes-Benz India

Enter username

Enter password

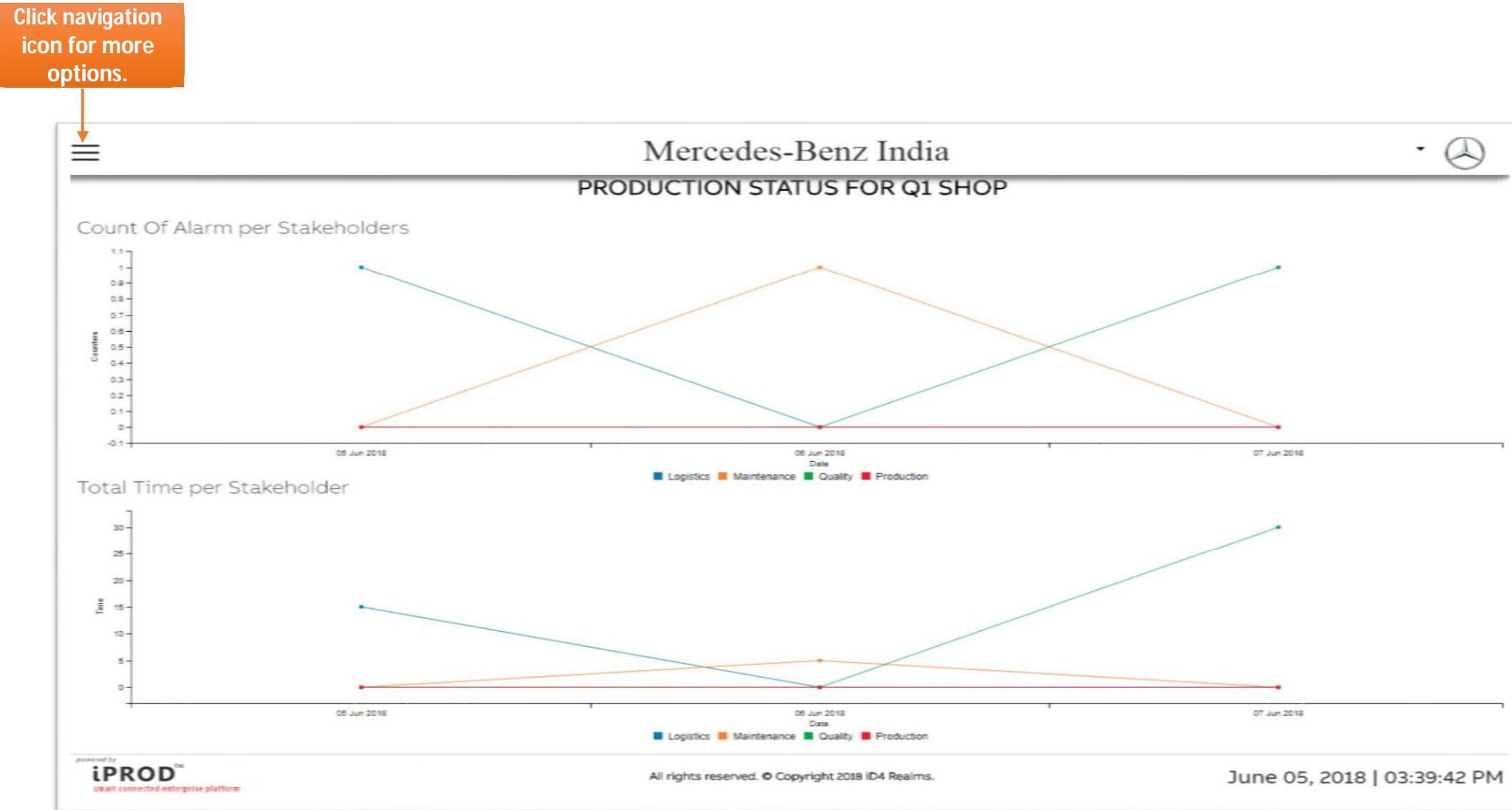
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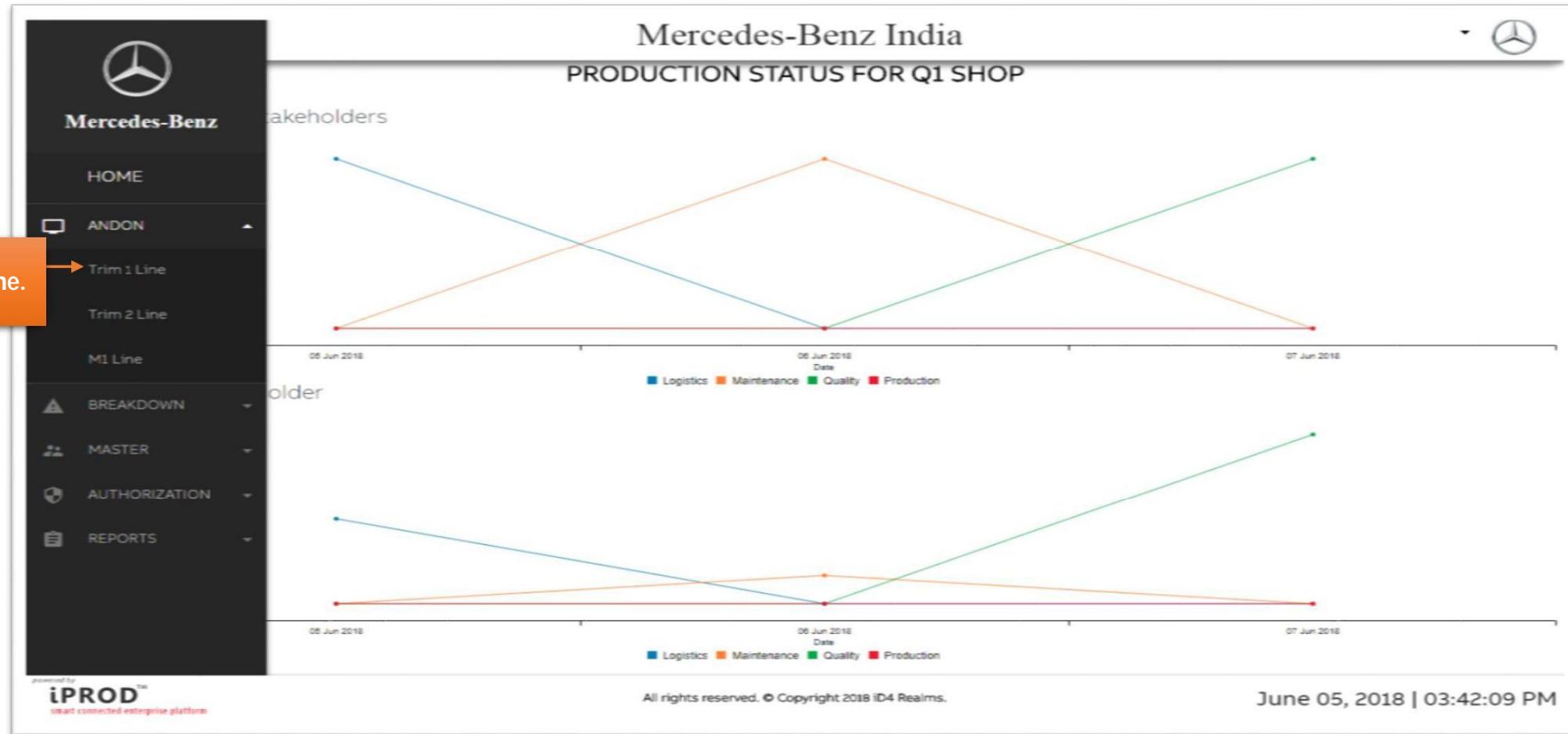
June 05, 2018 | 03:33:26 PM

HOME PAGE

- The top graph display current month wise and day wise total count per stakeholder.
- Bottom graph display current month wise and day wise total time per stakeholder.



- On click of navigation button we can see various option like – Andon, reports, breakdown details, master menu etc.
- Click on andon menu it will display multiple line – T1,T2 & M1. Click on any line for which you need to see andon values.



ANDON PRODUCTION STATUS

- Click navigation bar -> Andon -> Trim1(or any line name which you want to see).
- This page gives overview about current running shift production status for particular line.
- Current shift is displayed with it's respective target, due and actual.
- Takt time is calculated on bases of target.
- Left time is the remaining time to complete the takt time.
- Total time lost is extra time taken to complete one cycle.



Mercedes-Benz India

Production Status for Trim 1 Line

Shift	Target	Due	Actual
SHIFT 2	12	4	0
Takt Time(secs)		00:15	
Left Time(secs)		00:10	
Total Time Lost(secs)		00:00	

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BREAKDOWN ALARM

- Click navigation bar -> Breakdown -> Trim1(or any line name which you want to see).
- This gives an overview of breakdown occurred on respective station for that particular stakeholder.
- Station name is displayed if breakdown occurred on that particular station and if there are multiple breakdown on various station then station name toggles.

The screenshot shows a user interface titled "Breakdown Alarm for Trim 1" under "Mercedes-Benz India". The interface features a 2x4 grid of colored squares representing different stations:

L	1	M	2
Q	2	P	2

A callout box with an orange border and white text points to the bottom-right square (P2), containing the text: "Notify breakdown on that particular." An arrow from the text points to the square.

At the bottom left, it says "powered by iPROD™ smart connected enterprise platform". At the bottom center, it says "All rights reserved. © Copyright 2018 iD4 Realms.". At the bottom right, it says "August 29, 2018 | 06:47:30 PM".

Emergency notification

- This occur when pull cord is pulled on particular station for that particular line.



Mercedes-Benz India



1600px x 900px

EMERGENCY

MANAGE LINE

- Click navigation bar -> Master -> Manage Line.
- Various line name are displayed with it's respective auto-indexing time.
- You can change auto-indexing time for particular line by editing current time and then click on its corresponding button from control panel to submit value.

The screenshot shows a web-based application titled "Mercedes-Benz India" with a header containing the company logo and a menu icon. The main content area is titled "MANAGE LINE" and displays a table of line names and their auto-indexing times. The table has columns for "#", "LINE NAME", and "INDEXING TIME". The rows list five entries: Trim 1, Trim 2, Mechanical 1, Trim 3, and Mechanical 2. Each row contains an input field for the indexing time and a submit button. An orange callout box labeled "All line name." points to the "LINE NAME" column header. Another orange callout box labeled "Edit auto-indexing time" points to the input field for the second row (Trim 2). A third orange callout box labeled "Click to submit auto-indexing time for that particular line." points to the submit button for the same row. The indexing times listed are 117, 117, 55, and 1111 respectively.

#	LINE NAME	INDEXING TIME	
1	Trim 1		
2	Trim 2	117	
3	Mechanical 1	117	
4	Trim 3	55	
5	Mechanical 2	1111	

MANAGE STATION

- Click navigation bar -> Master -> Manage Station.
- Line wise station description is displayed.
- Click on any line to see its respective station details.

Mercedes-Benz India

☰

MANAGE STATION station details and more

Trim 1 Trim 2 Mechanical 1

#	DESCRIPTION	C PANEL
1	P	
2	1	
3	2	
4	3	
5	4	
6	5	
7	6	
8	7	
9	8	
10	9	
11	10	

Click to edit station description

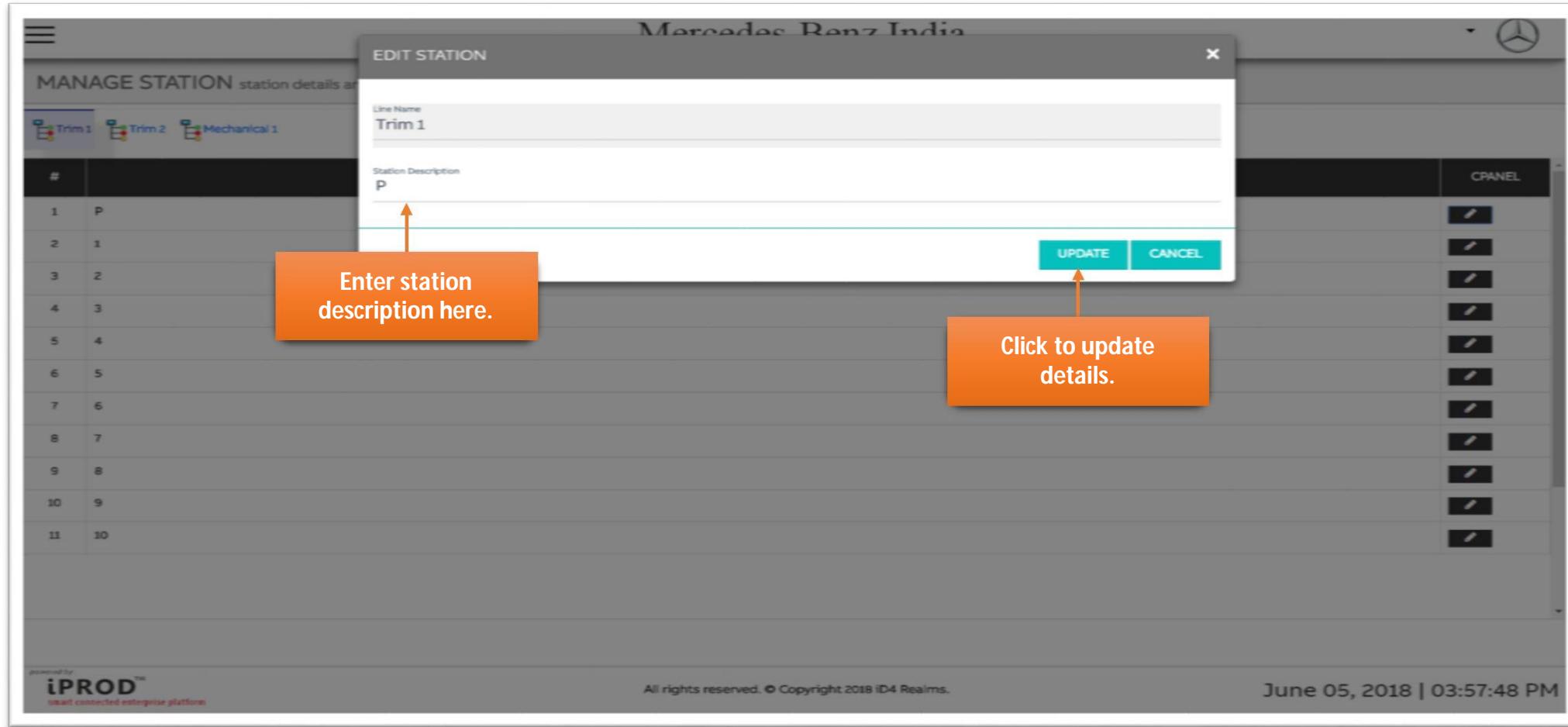
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EDIT STATION

- Enter station description for that particular line and then click on update button to update it.
- Cancel button will unsaved the details and will close the window.



MANAGE SHIFT

- Click navigation bar -> Master -> Manage Shift.
- This display various shift details with respective to its timing.
- You can also add shift, edit shift details and delete shift.

Mercedes-Benz India

Click to add shift.

+ ADD SHIFT

MANAGE SHIFT shift details and more

#	NAME	DESCRIPTION	START TIME	STOP TIME	BREAKFAST START TIME	BREAKFAST STOP TIME	LUNCH START TIME	LUNCH STOP TIME	SNACKS START TIME	SNACKS STOP TIME	DINNER START TIME	DINNER STOP TIME	C PANEL
1	SHIFT 1	A Shift	06:30:00	15:00:00	06:30:00	07:00:00	11:00:00	11:30:00	13:30:00	13:40:00	00:00:00	00:00:00	 
2	SHIFT 2	B Shift	15:00:00	23:30:00	15:00:00	15:30:00	00:00:00	00:00:00	22:00:00	22:10:00	19:30:00	20:00:00	 

CLICK to delete shift.

Click to edit shift.

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ADD SHIFT DETAILS

- To add shift detail click on add shift button from manage shift page.
- Insert various value and then click on add button to add a new shift details.

Mercedes Benz India

ADD SHIFT

MANAGE SHIFT shift details and more

#	NAME	DESCRIPTION	START TIME	END TIME
1	SHIFT 1	A Shift	06:30:00	15:00:00
2	SHIFT 2	B Shift	15:00:00	23:00:00

Shift Name: Enter shift name

Description: Enter Shift Desc

Start Time: 06:00 AM

End Time: 03:00 PM

Breakfast Start Time: 09:00 AM

Breakfast End Time: 09:15 AM

Shift Lunch Start Time: 12:30 PM

Shift Lunch End Time: 01:30 PM

Shift Snacks Start Time: 12:12 AM

Shift Dinner Start Time: 12:12 AM

Shift Dinner End Time: 12:12 AM

ADD | **CANCEL**

Click to add new shift details.

+ ADD SHIFT

DINNER START TIME	DINNER STOP TIME	C PANEL
00:00:00	00:00:00	
19:30:00	20:00:00	

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EDIT SHIFT DETAILS

- Click on edit button from manage shift page.
- Edit shift details as required and breakfast, lunch, snack, dinner time should be included between shift start time and end time.
- If any time is not included in start time and end time then given same time for both. Ex – if shift start time is 06:00 AM and end time is 03:00 PM and if there is no dinner time in that particular shift then mention dinner start time and dinner end time as same i.e. for ex 12:00-12:00 which comes out to zero.

MANAGE SHIFT shift details and more

#	NAME	DESCRIPTION	START TIME	END TIME
1	SHIFT 1	A Shift	06:30:00	15:00:00
2	SHIFT 2	B Shift	15:00:00	23:00:00

EDIT SHIFT

Mercedes-Benz India

Shift Name: SHIFT 1

Shift Description: A Shift

Start Time: 06:30 AM

End Time: 03:00 PM

Breakfast Start Time: 06:30 AM

Breakfast End Time: 07:00 AM

Shift Lunch Start Time: 11:00 AM

Shift Lunch End Time: 11:30 AM

Shift Snacks Start Time: 01:30 PM

Shift Snacks End Time: 01:40 PM

Shift Dinner Start Time: 12:00 AM

Shift Dinner End Time: 12:00 AM

+ ADD SHIFT

INNER START TIME	DINNER STOP TIME	C PANEL
00:00:00	00:00:00	
19:30:00	20:00:00	

UPDATE CANCEL

Click to submit edited shift details.

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MANAGE TARGET

- Click navigation bar -> Master -> Manage Target.
 - You can edit target for a particular line.
 - Enter required target in the column it will automatically calculate takt time as that target then click on the edit button to submit.

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MANAGE LINE SHIFT TARGET line shift details and more

#	LINE NAME	SHIFT NAME	TARGET(Unit)	TAKT TIME(hh:mm:ss)	C PANEL
1	Trim 1	SHIFT 1	50	00:08:47	
2	Trim 1	SHIFT 2	30	00:14:40	
3	Trim 2	SHIFT 1	5	01:27:59	
4	Trim 2	SHIFT 2	58	00:07:35	
5	Mechanical 1	SHIFT 1	13	00:33:50	
6	Mechanical 1	SHIFT 2	13	00:33:50	
7	Trim 1	SHIFT 3	23	00:26:05	
8	Trim 2	SHIFT 3	13	00:46:09	
9	Mechanical 1	SHIFT 3	0	00:00	

MANAGE ACTUAL

- Click navigation bar -> Master -> Manage Actual.
- You can edit actual column value for a particular line then click on it's respective button to submit the value.
- By default current date data is display on the page.
- Also there are various filters by which you can edit actual value for any previous date.
- You can filter data by given date range or shift or line.
- Lastly click on search button to search data as per data entered in filters.

The screenshot shows a web-based application titled "Mercedes-Benz India" with a header containing the company logo and a search bar. The main content area is titled "MANAGE ACTUAL actual details and more". It features a table with columns: #, LINE NAME, SHIFT NAME, DATE, ACTUAL, and C PANEL. The table contains five rows of data. At the top of the table, there are input fields for "From Date" and "To Date", dropdown menus for "All Lines" and "All Shifts", and a search icon. A large orange callout box labeled "Click filters to display data." points to the date and line/shift filters. Another orange callout box labeled "Search button." points to the search icon. A third orange callout box labeled "Click to submit actual value data." points to the "C PANEL" column, which contains edit icons for each row. The table data is as follows:

#	LINE NAME	SHIFT NAME	DATE	ACTUAL	C PANEL
1	Mechanical 1	SHIFT 3	04 Jul 2018	0	
2	Trim 1	SHIFT 1	04 Jul 2018	12	
3	Trim 1	SHIFT 2	04 Jul 2018	5	
4	Trim 2	SHIFT 2	04 Jul 2018	0	
5	Trim 1	SHIFT 1	04 Jul 2018	0	

MANAGE BREAKDOWN DETAILS

- Click navigation bar -> Master -> Manage Breakdown details.
- This gives detailed description of breakdown for all stakeholder.
- Supervisor can also mention reason for breakdown in the given column and then click on submit button to submit it.

Mercedes-Benz India

MANAGE BREAKDOWN DETAILS station details and more

From Date To Date
03-Jun-2018 30-Jun-2018 Trim 1 SHIFT 1

#	LINE NAME	STATION NAME	BREAKDOWN NAME	BREAKDOWN SHIFT NAME	BREAKDOWN DATE	BREAKDOWN TIME	RESUME DATE	RESUME TIME	SUPERVISOR COMMENTS
1	Trim 1	7	MAINTENANCE	SHIFT 1	03 Jun 2018	12:36:59	03 Jun 2018	12:36:59	<input type="text"/>
2	Trim 1	7	PULL CODE	SHIFT 1	03 Jun 2018	12:36:59	03 Jun 2018	12:37:02	<input type="text"/>
3	Trim 1	7	LOGISTICS	SHIFT 1	03 Jun 2018	12:37:02	03 Jun 2018	12:37:02	<input type="text"/>
4	Trim 1	7	QUALITY	SHIFT 1	03 Jun 2018	12:37:02	03 Jun 2018	12:37:02	<input type="text"/>
5	Trim 1	8	QUALITY	SHIFT 1	03 Jun 2018	12:37:02	03 Jun 2018	12:37:02	<input type="text"/>
6	Trim 1	6	PULL CODE	SHIFT 1	03 Jun 2018	12:46:15	03 Jun 2018	12:46:19	<input type="text"/>
7	Trim 1	6	LOGISTICS	SHIFT 1	03 Jun 2018	12:46:26	03 Jun 2018	12:46:28	<input type="text"/>
8	Trim 1	8	LOGISTICS	SHIFT 1	04 Jun 2018	10:16:08	04 Jun 2018	10:16:10	<input type="text"/>
9	Trim 1	8	MAINTENANCE	SHIFT 1	04 Jun 2018	10:16:11	04 Jun 2018	10:16:15	<input type="text"/>
10	Trim 1	8	QUALITY	SHIFT 1	04 Jun 2018	10:16:16	04 Jun 2018	10:16:18	<input type="text"/>
11	Trim 1	8	QUALITY	SHIFT 1	04 Jun 2018	10:21:39	04 Jun 2018	10:21:41	<input type="text"/>
12	Trim 1	8	QUALITY	SHIFT 1	04 Jun 2018	10:21:42	04 Jun 2018	10:22:57	<input type="text"/>
13	Trim 1	8	LOGISTICS	SHIFT 1	04 Jun 2018	10:22:07	04 Jun 2018	10:22:08	<input type="text"/>

Click submit button to submit reason.

Mention breakdown reason.

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July 11, 2018 | 12:36:55 PM

MANAGE USER

- Click navigation bar -> Authorization -> Manage Users.
- This gives overview of various users and its respective role.
- You can also add, edit and delete particular user.
- Change password is also an option provided for which old password is required.

The screenshot shows a user management interface for Mercedes-Benz India. At the top right, there is a logo and a button labeled '+ ADD USER'. Below the header, the title 'MANAGE USER user details and more' is displayed. A table lists two users:

#	USER NAME	NAME	EMAIL ID	CONTACT NUMBER	ROLE	C PANEL
1	iprod_master	Joe	joemb78@mercedesb.com	98230286921	Admin	
2	iprod_operator	Suresh	sureshmb05@mercedesb.com	98234857958	Operator	

Annotations with orange arrows point to specific actions:

- An arrow points from the text 'Click to add user.' to the '+ ADD USER' button.
- An arrow points from the text 'Delete user.' to the red square icon in the C PANEL column for the Admin user.
- An arrow points from the text 'Change password option.' to the red square icon in the C PANEL column for the Operator user.
- An arrow points from the text 'Click to edit user.' to the edit icon in the C PANEL column for the Operator user.

At the bottom left, it says 'powered by iPROD™ smart connected enterprise platform'. At the bottom center, it says 'All rights reserved. © Copyright 2018 ID4 Realms.'. At the bottom right, it says 'June 05, 2018 | 04:23:17 PM'.

REPORTS

- Click navigation bar -> Reports -> Stakeholder.
- Stakeholder breakdown report is shown which give detailed description of breakdown for current date.
- By using filters of date, line and shift you can see any previous report.
- Select the required filters and then click on search button.
- Export to excel is also an option to save report on local system.

Date filter to display data by date.

Line filter to display data by line name.

Shift filter to display data by shift name.

Search button.

Click to save report on local system.

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STAKEHOLDER REPORT

From Date: 01-Apr-2018 To Date: 05-Jun-2018

All Lines --- All Shifts ---

Export To Excel

Count of Alarms per Stakeholder

LOGISTICS	MAINTENANCE	QUALITY	PRODUCTION
1	1	2	0

Total time per Stakeholder

LOGISTICS	MAINTENANCE	QUALITY	PRODUCTION
15	5	60	0

Stakeholder Summary Report

#	STATION	STAKEHOLDER	BREAKDOWN DATE	FROM TIME	TO TIME	DURATION(mm)
1	P	LOGISTICS	05 May 2018	12:00:00	12:15:00	15
2	1	MAINTENANCE	25 May 2018	12:15:00	12:20:00	5
3	2	QUALITY	05 Jun 2018	12:00:00	12:30:00	30
4	3	QUALITY	05 Jun 2018	12:00:00	12:30:00	30

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STAKEHOLDER REPORT WITH REASON

- Click navigation bar -> Reports -> Stakeholder Reason.
- This display stakeholder report for current date with reason for breakdown description that person has mention in manage breakdown details page.

Mercedes-Benz India

STAKEHOLDER REASON REPORT

From Date dd----yyyy To Date dd----yyyy --- All Lines --- --- All Shifts ---

Count of Alarms per Stakeholder

LOGISTICS	MAINTENANCE	QUALITY	PRODUCTION
0	1	2	0

Total time per Stakeholder

LOGISTICS	MAINTENANCE	QUALITY	PRODUCTION
0	5	60	0

Stakeholder Summary Report

#	STATION	STAKEHOLDER	BREAKDOWN DATE	FROM TIME	TO TIME	DURATION(min)	REASON
1	1	MAINTENANCE	06 Jun 2018	12:15:00	12:20:00	5	Operator not available.
2	2	QUALITY	06 Jun 2018	12:00:00	12:30:00	30	Issue in breaker.
3	3	QUALITY	06 Jun 2018	12:00:00	12:30:00	30	

Click to save report on local system.

Export To Excel

Breakdown reason displayed here.

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LINE ANDON

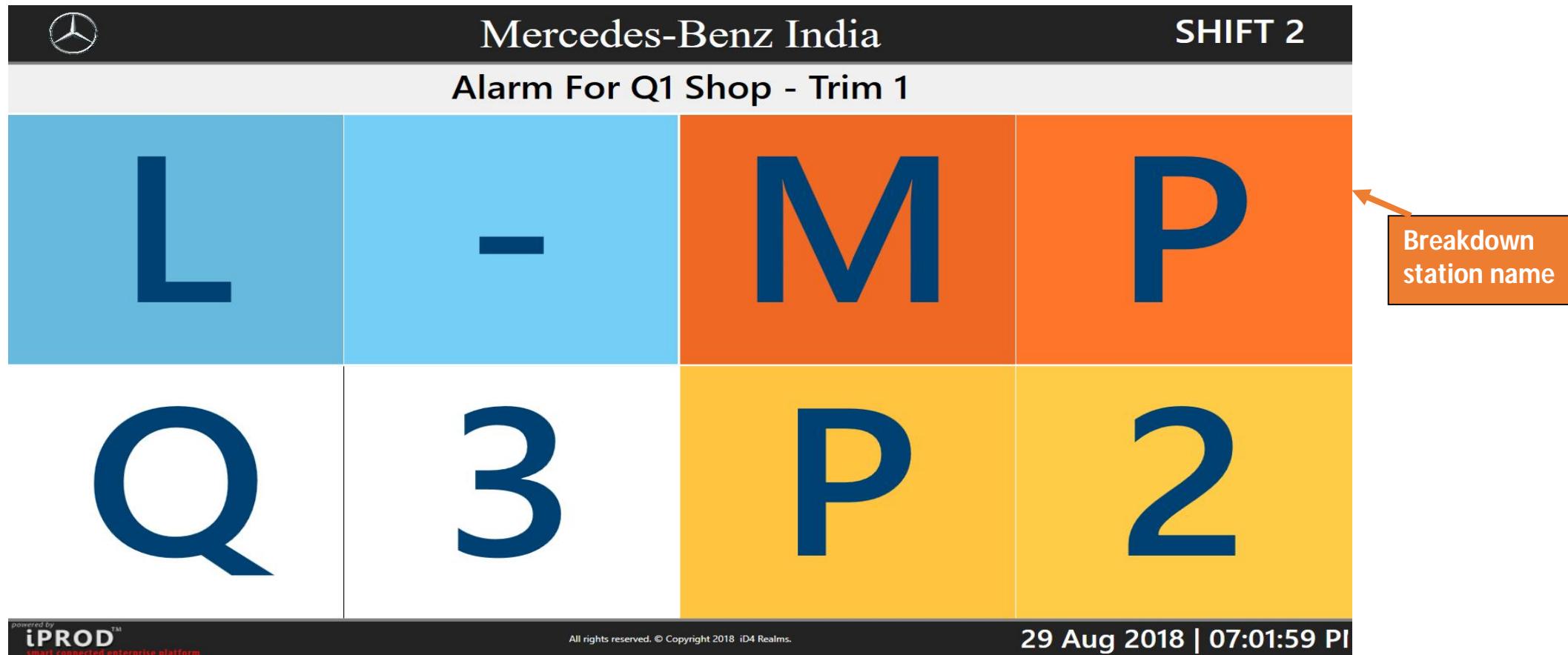
LINE ANDON - Screen 1

- This screen display target, due and actual for that particular line with respective to its shift.
- If actual is greater or equal to due then it is displayed in green color and if smaller then due then in red color.
- Takt time is calculated on base of target uploaded through control center.
- Left time is time remaining to complete takt time. For first 70% it is displayed in green color, remaining 20% in blue and last 10% in red color.
- Total lost time is extra time taken to complete one cycle.

Mercedes-Benz India				SHIFT 1
Production Status For Q1 - Trim 1				
Shift	Target	Due	Actual	Current working shift.
1st	78	13	12	
2nd	0	0	0	
Takt (mm:ss)	Left Time (mm:ss)	Total Lost (mm:ss)		
30:00	29:30	00:39		

LINE ANDON - Screen 2

- This screen gives overview of breakdown occurred on particular station for that particular stakeholder.
- If there is breakdown alarm for particular stakeholder on multiple station then station name is toggle to display multiple station name value.



About iD4 Realms



Incorporated in 2009 with its head office located in Pune, India, iD4 is a global multi-realm innovative technology consulting & **digital transformation** company offering suite of cutting-edge products and flexible digitalization solutions powered by its **Connected Enterprise & Digital Transformation Platform – iPROD** primarily in the following areas:

- **Digital Transformation & Integration** - *of vertical and horizontal value chains*
- **Industry 4.0 maturity assessment & consulting**
- **Smart Factory Lab** – *execute & access the benefits of digitization case studies before actually implementing it.*
- **Smart Connected Factory & Industry 4.0 provisioning – IIoT, Cloud and Data analytics**
- **Interoperability enablement** – *make devices, sensors, machines, processes and people talk to each other.*
- **Order picking – Pick 2 Light, Push 2 Light Systems**
- **Location tracking – GPS, RFID, WIFI, Bluetooth – Vehicle, Asset, Product Location Tracking.**

A diversified, well-trained and motivated talent pool of people at iD4 works cohesively to deliver software solutions based around a mature global delivery model to clients across the globe.