PRODUCT DECK - 2020

iLab, Test Lab Operations & Management System

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ABOUT WEB SYNERGIES

CMMI DEV /3 SM
Exp. 2022-12-12 / Appraisal #5270

CMMI SVC /3 SM
Exp. 2022-12-12 / Appraisal #5270

ISO 27001
BUREAU VERITAS
Certification
BUREAU VERITAS 1828
UKAS MANAGEMENT SYSTEMS
008

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CMMI Level 3 for Development & Services

Certified
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- Web Synergies India Pvt Ltd

Over 300 Staff of Dedicated IT specialists

Singapore   l   Hyderabad   l   Bengaluru   l   Tokyo

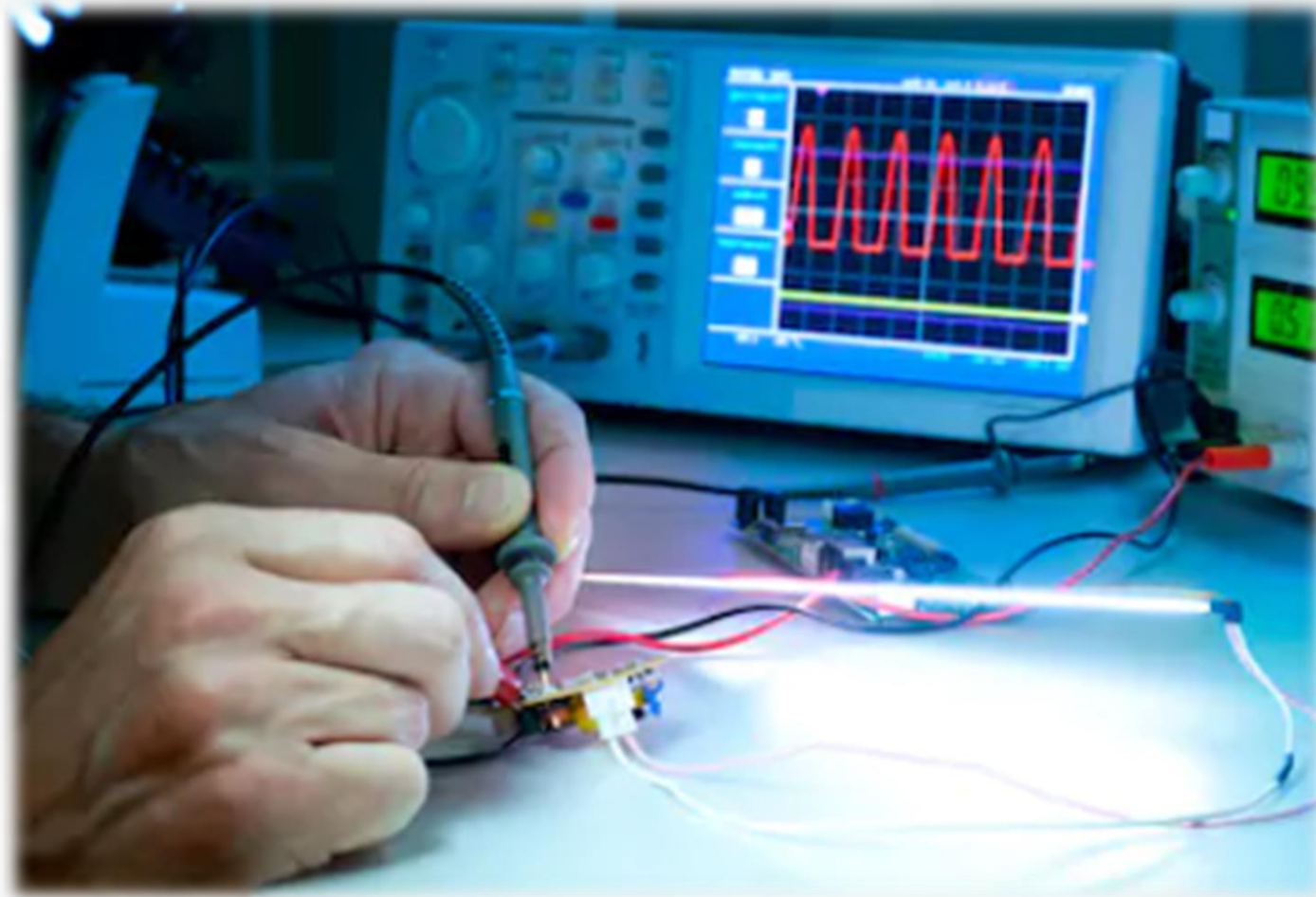# iLab – Test Lab Operations & Management System

iLab is a Test Lab Operations and Management System (TLOMS) solution that empowers the management of Test Lab operations from a single platform.
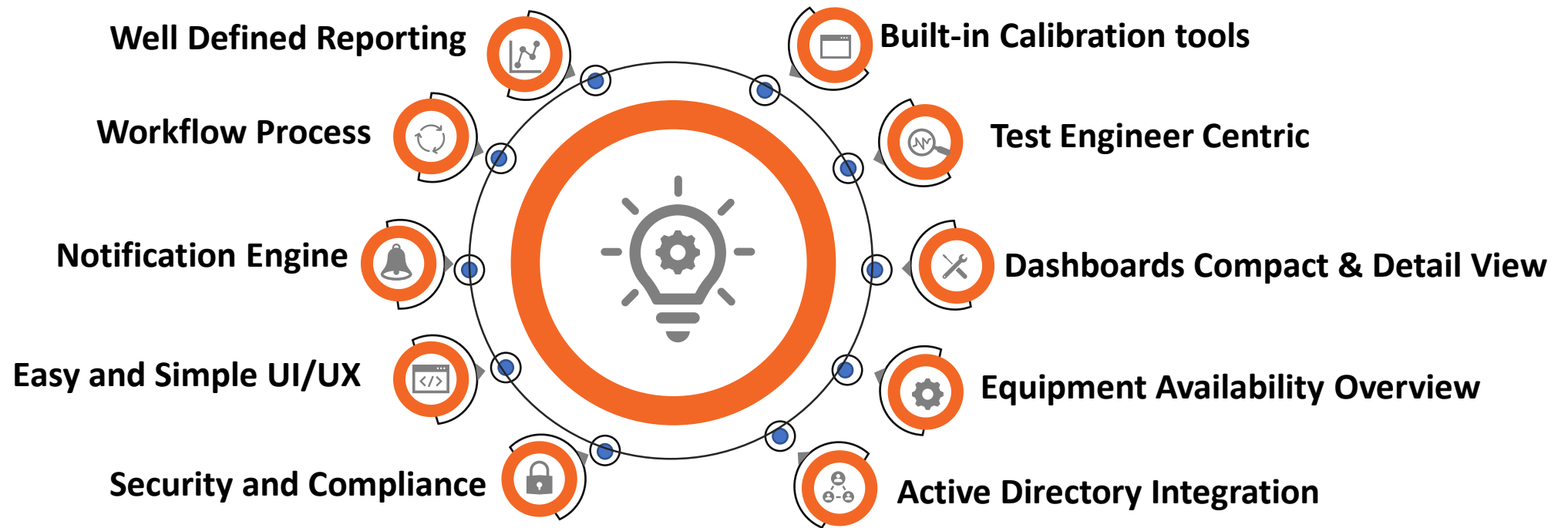
This solution is a comprehensive and end to end management of testing procedures for any QA and testing environment.
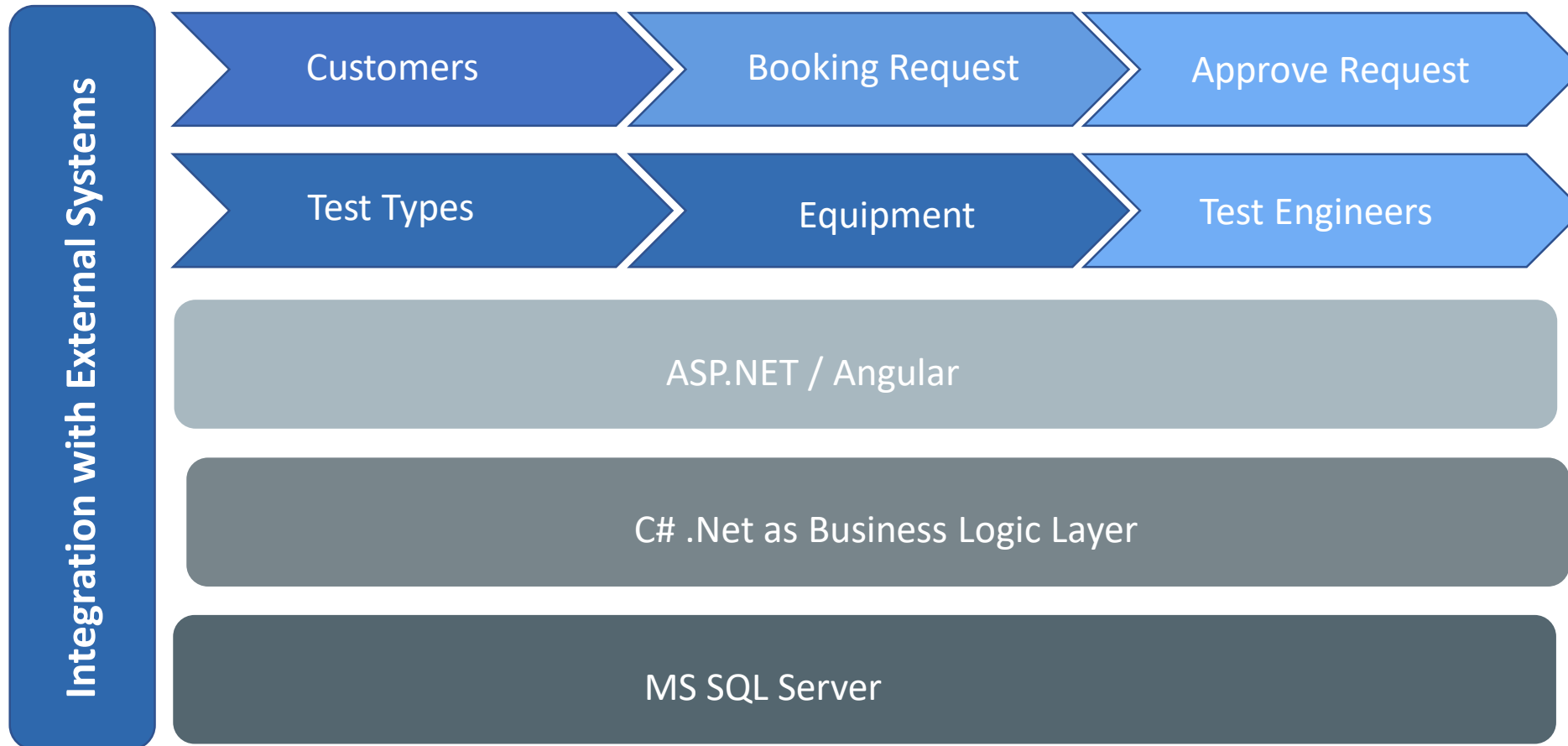
An ideal system for large/medium test labs to schedule, maintain, and track their operations completely online.

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Prominent Features

Well Defined Reporting

Workflow Process

Notification Engine

Easy and Simple UI/UX

Security and Compliance

Built-in Calibration tools

Test Engineer Centric

Dashboards Compact & Detail View

Equipment Availability Overview

Active Directory Integration

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Solution Architecture

Integration with External Systems

Customers	Booking Request	Approve Request

Test Types	Equipment	Test Engineers

ASP.NET / Angular

C# .Net as Business Logic Layer

MS SQL Server

Singapore I Hyderabad I Bengaluru I Tokyo

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Specifications

Order Request	Define Test type	Device Allocation
Approve Request	Test Engineer Dashboard	Check-in
Preparation for Testing	Record Testing Details	Check-Out

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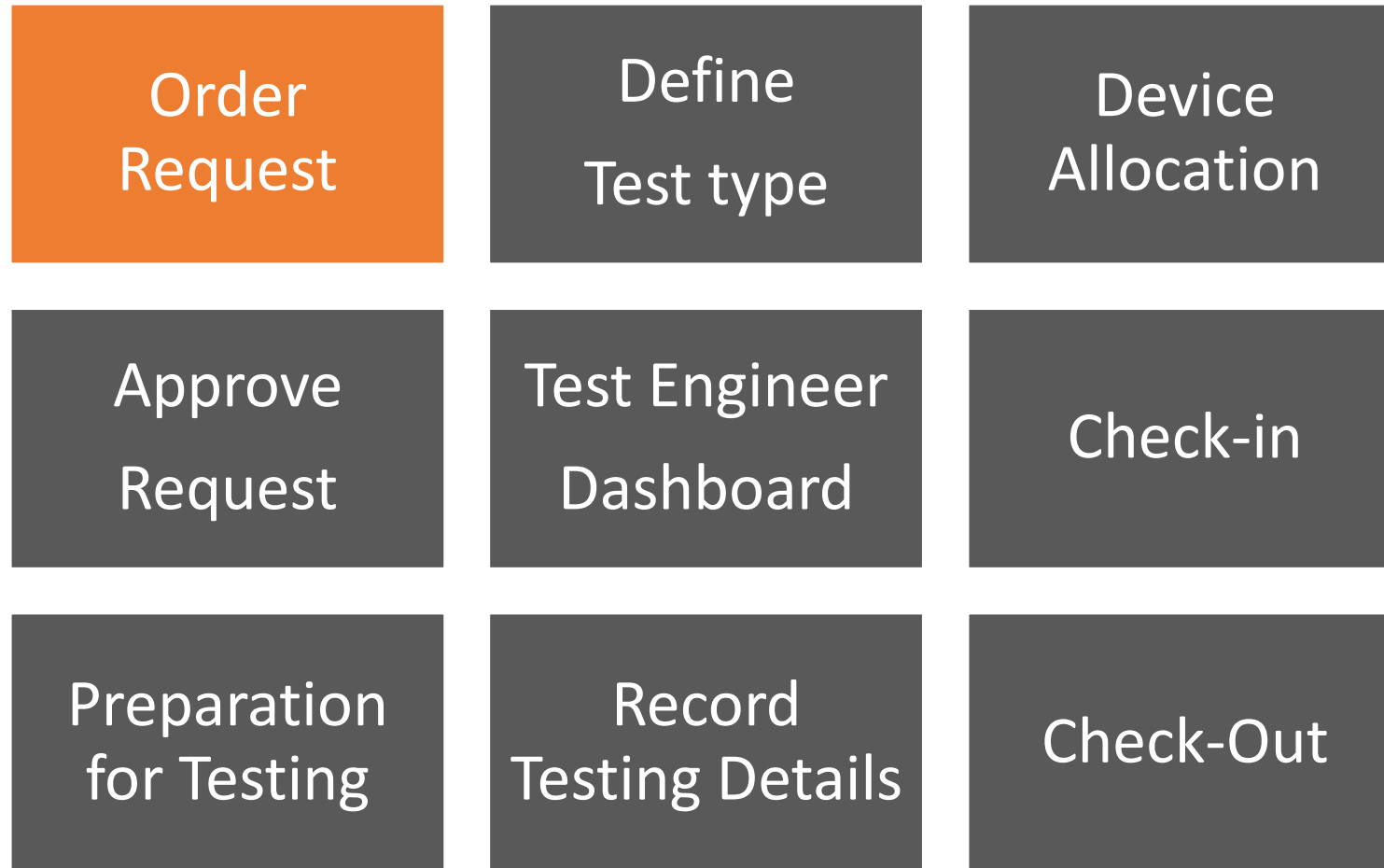
Order Request

Request ID	Request Date	Lot ID	Device ID	RELEngineer	Requestor Email	Status	Action	W/P/S
R-17-0012	09-May-2017	ghhg	dhdh	Manasa Rel-Engineer	anandkumar.gontu@websynergies.biz	Check-Out		⬤⬤⬤
R-17-0013	09-May-2017	dfsfsd	sdfsdf	Manasa Rel-Engineer	anandkumar.gontu@websynergies.biz	Pending Approval		
R-16-0008	03-Oct-2016	12	33	sophiya	anandkumar.gontu@websynergies.biz	Partially Approved		
R-16-0009	03-Oct-2016	12	33	sophiya	anandkumar.gontu@websynergies.biz	Partially Approved		
R-16-0010	03-Oct-2016	12	33	sophiya	anandkumar.gontu@websynergies.biz	Partially Approved		

Search: Enter Keyword...

Print

Specifications

Order Request	Define Test type	Device Allocation
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Define Test Type

				Test Type-Device : SRAM_PLR_Auto Clave

FEOL_PLR_TDDB

SRAM_PLR_Auto Clave

Standard *	GATE *	VDD(Thin/Thick) *	Wafer ID/DUT No.# *	Temperature (degC) *	Humidity %	Readout / Cycle *	Action
Std 1 ▼	A	2.45	3	121C	100	4 ▼	➕ ➖
Std 2 ▼	A	3	2	121C	100	2 ▼	➕ ➖
Select ▼						Select ▼	➕ ➖

Update   Cancel   Back

Specifications

Order Request	Define Test type	Device Allocation
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Device Allocation

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Specifications

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Approve Request

Request Approval of [R-16-0011]	🕐 03-Oct-2016

Request ID	:	R-16-0011	Requestor Name	:	Anand
Requestor Email	:	anandkumar.gontu@websynergies.biz	Rel Engineer In-Charge	:	sophiya
Lot ID	:	12			

✔ Approve All **✖ Reject All**

Test Device Type	Status	Date & Time	Action
FEOL_PLR_HCI			✔ Approve ✖ Reject
FEOL_WLR_Analog HCI			✔ Approve ✖ Reject
FEOL_WLR_NBTI/PBTI			✔ Approve ✖ Reject
BEOL_WLR_FWLR EM			✔ Approve ✖ Reject
SRAM_PLR_HAST			✔ Approve ✖ Reject
SRAM_WLR_Auto Clave			✔ Approve ✖ Reject
PLR_CPI_TC			✔ Approve ✖ Reject

Specifications

Order Request	Define Test type	Device Allocation
Approve Request	Test Engineer Dashboard	Check-in
Preparation for Testing	Record Testing Details	Check-Out
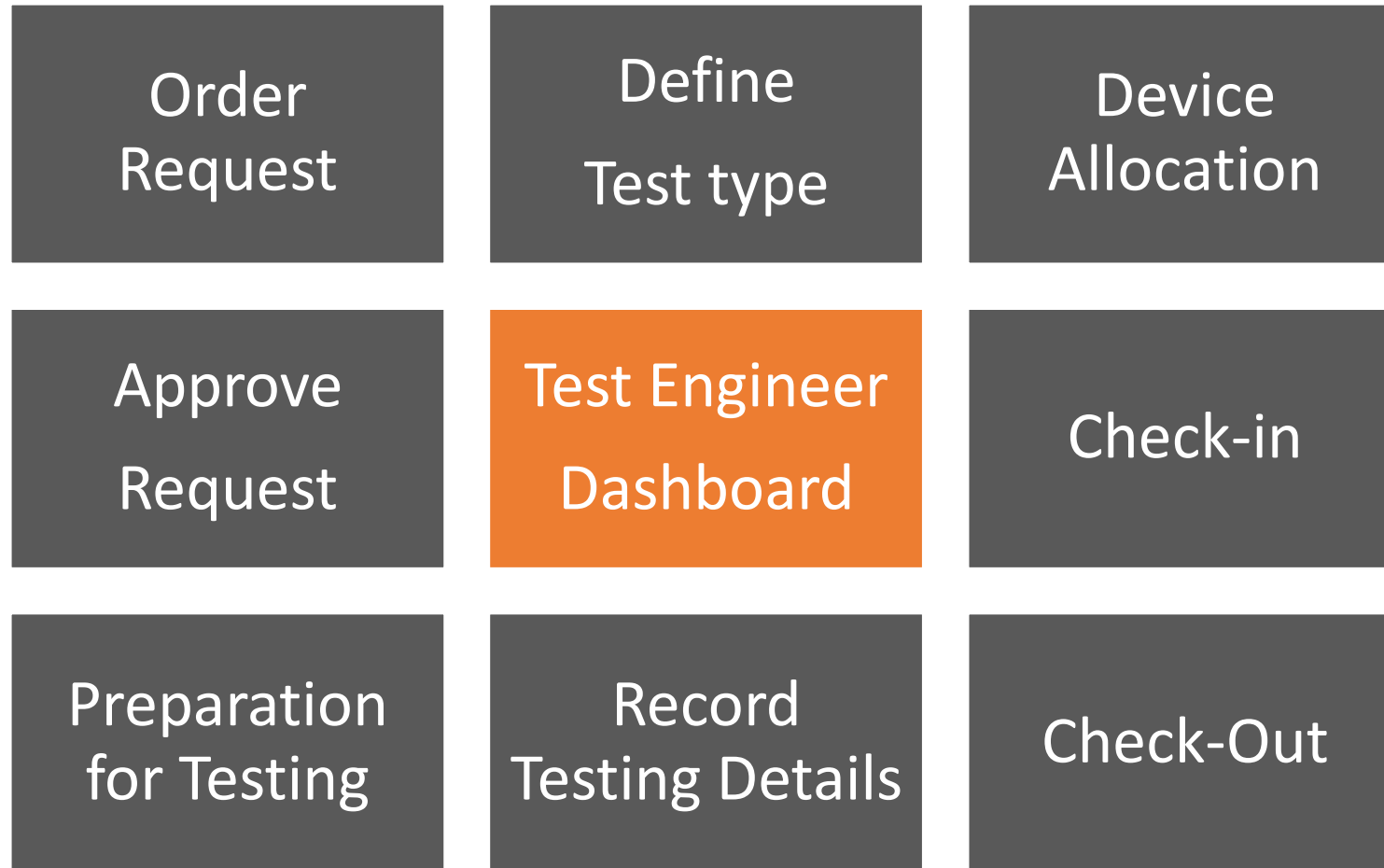
Test Engineer Dashboard

WIP (51) — PIN COUNT: 3172

M ✓→
🖥 UAV5_1x2 (IT-059345-0) — 📌 80
👤 ST, AGT, TPA, EWS, Sirtori T. — ⏱ 21/05/18
👥
Note:

M ✓→ — 08/05/18
🖥 B501_x4 (SG-036855-0) — 📌 48
👤 ST Microelectronics Pte Ltd (TPY) — ⏱ 17/05/18
👥 — ◇ Have Order
Note:

M
🖥 W02675E3 (SG-036844-0) — 📌 152
👤 TEXAS INTRUMENTS MELAKA — ⏱ 30/05/18
👥 — ◇ Have Order
Note:

M ✓→
🖥 P83849E1 (SG-036842-0) — 📌 336
👤 TEXAS INTRUMENTS MELAKA — ⏱ 29/05/18
👥 — ◇ Have Order
Note:

M ✓→
🖥 T22673E0 (SG-036841-0) — 📌 104
👤 TEXAS INTRUMENTS MELAKA — ⏱ 29/05/18
👥 — ◇ Have Order

ASSEMBLY (15) (9) — PIN COUNT: 3674

⭐ ✓ **M** — 07/05/18
🖥 EFR33000_X8 (SG-036852-0) — 📌 576
👤 Silicon Labs International, Pte Ltd. — ⏱ 22/05/18
👥 KLK — ◇ Have Order
Note: KYEC - TW

✓ **M**
🖥 W05005E0 (SG-036845-0) — 📌 76
👤 TEXAS INTRUMENTS MELAKA — ⏱ 29/05/18
👥 CSY — ◇ Have Order
Note:

✓ **M**
🖥 WSCP3NW7QJ (SG-036843-0) — 📌 668
👤 TEXAS INTRUMENTS MELAKA — ⏱ 29/05/18
👥 LDM — ◇ Have Order
Note:

⭐ 2/3 ✓ **M** — 07/05/18
🖥 UH33_DUALSITE_NS (SG-036838-0) — 📌 162
👤 ST, SINGAPORE, Y S TEH (AMK6) — ⏱ 14/05/18
👥 LXF — ◇ Have Order
Note:

⭐ 1/3 ✓ **M** — 07/05/18
🖥 UH33_DUALSITE_NS (SG-036837-0) — 📌 162
👤 ST, SINGAPORE, Y S TEH (AMK6) — ⏱ 11/05/18

OVEN SANDBLAST (10) (2) — PIN COUNT: 980

2/2 ✓ **M**
🖥 P0S083E1 (SG-036847-0) — 📌 71
👤 TEXAS INTRUMENTS MELAKA — ⏱ 25/05/18
👥 CMF — ◇ Have Order
Note:

✓ **M**
🖥 W02734E0 (SG-036835-0) — 📌 64
👤 TEXAS INTRUMENTS MELAKA — ⏱ 25/05/18
👥 CMF — ◇ Have Order
Note:

2/4 ✓ **M**
🖥 UJ13 (SG-036825-0) — 📌 137
👤 ST, SINGAPORE, Y S TEH (AMK6) — ⏱ 10/05/18
👥 CMF — ◇ Spider Only
Note:

1/4 ✓ **M**
🖥 UJ13 (SG-036824-0) — 📌 137
👤 ST, SINGAPORE, Y S TEH (AMK6) — ⏱ 09/05/18
👥 CMF — ◇ Spider Only
Note:

1/2 ✓ **M**
🖥 UK79 (SG-036822-0) — 📌 73
👤 ST, SINGAPORE, Y S TEH — ⏱ 10/05/18

COUNTERBORE WITH PCB (21) (61) — PIN COUNT: 1747

1/2 ✓ **M** — 30/04/18
🖥 TYPE552_REV2 077 (US-028046-0) — 📌 208
👤 SEAGATE IRELAND — ⏱ 21/05/18
👥 — ◇ Have Order
Note:

✓ **M** — 23/04/18
🖥 TYPE551 051 (US-028022-0) — 📌 128
👤 SEAGATE IRELAND — ⏱ 15/05/18
👥 — ◇ Have Order
Note:

✓ **M** — 07/05/18
🖥 T08860E0 (SG-036773-0) — 📌 296
👤 TEXAS INTRUMENTS MELAKA — ⏱ 16/05/18
👥 — ◇ Have Order
Note:

✓ **M** — 07/05/18
🖥 W00301E1 (SG-036774-0) — 📌 108
👤 TEXAS INTRUMENTS MELAKA — ⏱ 17/05/18
👥 — ◇ Have Order
Note:

✓ **M** — 07/05/18
🖥 W0R906E1 (SG-036772-0) — 📌 234
👤 TEXAS INTRUMENTS MELAKA — ⏱ 17/05/18
👥 — ◇ Have Order
Note:

Specifications

Order Request	Define Test type	Device Allocation
Approve Request	Test Engineer Dashboard	Check-in
Preparation for Testing	Record Testing Details	Check-Out

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Check-in

338

12

 # sam_eng

sam_eng

On Hold   Pending Customer

Handover

General Information

eTag ID	338	**Start Date**	23/05/18
ID Code	sam_eng	**Delivery Date**	-
Device Name	sam_eng	**Pin Count**	12
Customer ID	-	**Priority**	Normal
Customer Name	AMKOR Technology	**PCB Arrival Date**	18/05/18
Batch Order	-	**PCB Part Number**	-
Release Type	Engineering/Investigation		
Quick Note 1	-		
Quick Note 2	-		

Current Stage

ENGINEERING

Remarks

○ **[23/05/18,19:50]**   Planner (Planner): eTag Created as Engineering/Investigation:

○ **[24/05/18,13:22]**   Engineering (engineering): WIP Ongoing

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Specifications

Order Request	Define Test type	Device Allocation
Approve Request	Test Engineer Dashboard	Check-in
Preparation for Testing	Record Testing Details	Check-Out

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Preparation for Testing

Wafer ID / Serial Number	Check-Out On	Check-Out By	Check-In On	Check-In By	Test Started On	Test Started By	Test Ended On	Test Ended By	Package
☑ w1	30-May-2020 09:32 PM	Anuradha	30-May-2020 09:32 PM	Anuradha					PLR / pk1
☑ w2	30-May-2020 09:32 PM	Anuradha	30-May-2020 09:32 PM	Anuradha					PLR / pk1
☑ w3	30-May-2020 09:32 PM	Anuradha	30-May-2020 09:32 PM	Anuradha					PLR / pk1
☑ w4	30-May-2020 09:32 PM	Anuradha	30-May-2020 09:32 PM	Anuradha					PLR / pk1
☑ w5	30-May-2020 09:32 PM	Anuradha	30-May-2020 09:32 PM	Anuradha					PLR / pk1

Check-Out Remarks :

Package Number * :   pk1

Check-In Remarks :

Start Testing   Cancel   Back

Specifications

Order Request	Define Test type	Device Allocation
Approve Request	Test Engineer Dashboard	Check-in
Preparation for Testing	Record Testing Details	Check-Out

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Record Testing Details

Result *   Pass ▼

Remarks *   Testing completed

Enter File Name	No file selected	Choose File	Add	Cancel

Search: Enter Keyword...

Attachment Name	Attachment	Action
Test Report	20171013-20171022_R-16-0002_1.xls	✎ 🗑

Showing 1 to 1 of 1 entries   Show 10 ▼ entries   [1]

Save

Specifications

Order Request	Define Test type	Device Allocation
Approve Request	Test Engineer Dashboard	Check-in
Preparation for Testing	Record Testing Details	Check-Out

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Check-Out

Primary Details

Requestor Supervisor Email: anandkumar.gontu@websynergies.biz

Date: 09-May-2017

Lot ID: L100

Device ID: D100

Process ID: P100

Purpose of Request: creating request

Lot Start Date: 09-May-2017

Lot Fabout Date: 12-May-2017

CheckIn By: Anuradha

CheckIn Date: 09-May-2017

Wafer Details

Wafer ID / Serial Number	Remarks *	Check-Out Date
✔ w1	w1 remarks	📅 09-May-2017
✔ w2	w2 remarks	📅 09-May-2017
✔ w3	w3 remarks	📅 09-May-2017
✔ w4	w4 remarks	📅 09-May-2017
✔ w5	w4 remarks	📅 09-May-2017

CASE STUDIES

Case Study

CLIENT

Jabil Inc. is a United States-based global manufacturing services company. Headquartered in St. Petersburg, Florida, It has 90 facilities in 23 countries, and 175,000 employees worldwide

CHALLENGE

- Jabil was using tedious manual process to track end to end test flow process.
- The test flow of each request would have to go through a hierarchical structure which is unique from customer to customer.
- Internal store managers wanted to generate the barcode for all the samples during the stock take.

SOLUTION

- We build iLab as a product to fulfill the requirements, Application used MVC platform with MS SQL Server as backend.
- Incorporated smart application to generate the barcode with the combination of request, sample, customer, test flow with the equipment schedule.
- Test report generated by the equipment is captured, stored and accessible to test engineers, lab managers and customers.
- System also designed to address calibration process. Comprehensive report builder is provided to generate ad-hoc reports.

RESULT

- Visibility of customer request and its statuses
- Monitoring real-time progress of test flow process
- Automated equipment schedule and attaching test personnel to equipment
- Tracking holiday and equipment calendar with downtime.
- Tracking of test personnel shift & absence calendar.
- Optimized the equipment utilization due to the visibility of real-time progress.
- Improved the productivity of test lab operations.

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Case Study

CLIENT

Technoprobe is a leader in the microelectronics industry, specializing in design and manufacturing of Probe Card. Probe cards are necessary to test semiconductor chips.

CHALLENGE

- More robust workflow implementation.
- Better user experience, rich user interface and device compatibility.
- Better visibility, tracking of the eTag movement.
- Monitoring of the eTag traffic at each stage.
- Better visibility on the schedule with test person allocation.

SOLUTION

- Technoprobe testing solution was build using Angular.js.
- Ability to generate the order with an e-Tag that will be carry forward throughout the fulfilment process.
- Bird's eye view of the running E-tags.
- Ability to monitor all the incoming order on Dashboard categorized by priority, status, category and sub-category.
- Flexible reporting module.
- Comprehensive Analytics included for each department.
- Schedule jobs placed to integrate with HQ system in order to update the latest status of the eTag.

RESULT

Technoprobe has quickly adopted the application and started allocating eTags. The key features like Schedule & Shipment was helpful for every user to plan and process the design and testing. This has improved the process times effectively.

TECHNOPROBE
Wafer Probing Technologies

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Case Study

CLIENT

GLOBALFOUNDRIES, a leading full-service semiconductor design, development, fabrication and innovation company with locations across the globe.

CHALLENGE

Global Foundries was using tedious manual process to track end to end test flow process. GFS also wanted customer to have visibility on their request and track progress of the request. Equipment utilization and resource planning was also major challenge.

SOLUTION

- Design and developed a user-friendly online capacity booking process system for GFS. The objective is to develop a test lab system to submit request, plan, schedule and record test results. This would help improve the test engineering process, thus increasing the visibility.

- We proposed existing iLab product as a base and customized to suit their requirements. Application used MVC platform with MS SQL Server as backend.

RESULT

- Visibility of booking capacity.
- Tracking of real-time progress of test flow process.
- Optimized the equipment utilization due to the visibility of real-time progress.
- Improved the productivity of test lab operations.

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Salient Features

Fully SAAS Model

Minimal Setup

24x7 Support

Own Branding

Open standards and customizable

Secure and configurable

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