



SWYFT

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SWYFT

Thinking Industry Further

Siemens Vietnam Digital Industries Partner Conference Vietnam

07-09 November 2019

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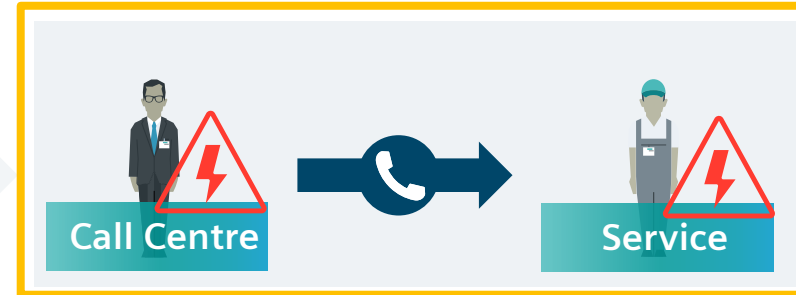
Classical Service Process

The classical service process is cumbersome

With multiple communication channels and problems faced

Lack of transparency

- Service performance metrics
- Revenue generated (by time-period, by product)



Lack of accountability

- No real-time updates of service status (e.g. due to unresponsive onsite engineers)
- Manual way of job dispatch and of tracking engineers' schedule (e.g. Excel or whiteboard)

Lack of traceability

- Unable to trace steps performed
- Unable to determine location of engineers to efficiently dispatch to nearest job available

Lack of service data to perform data analysis

- Massive work to retrieve archived or past service reports (hard or digital copies)
- Service data not categorized or consolidated properly

Introduction of SW YFT



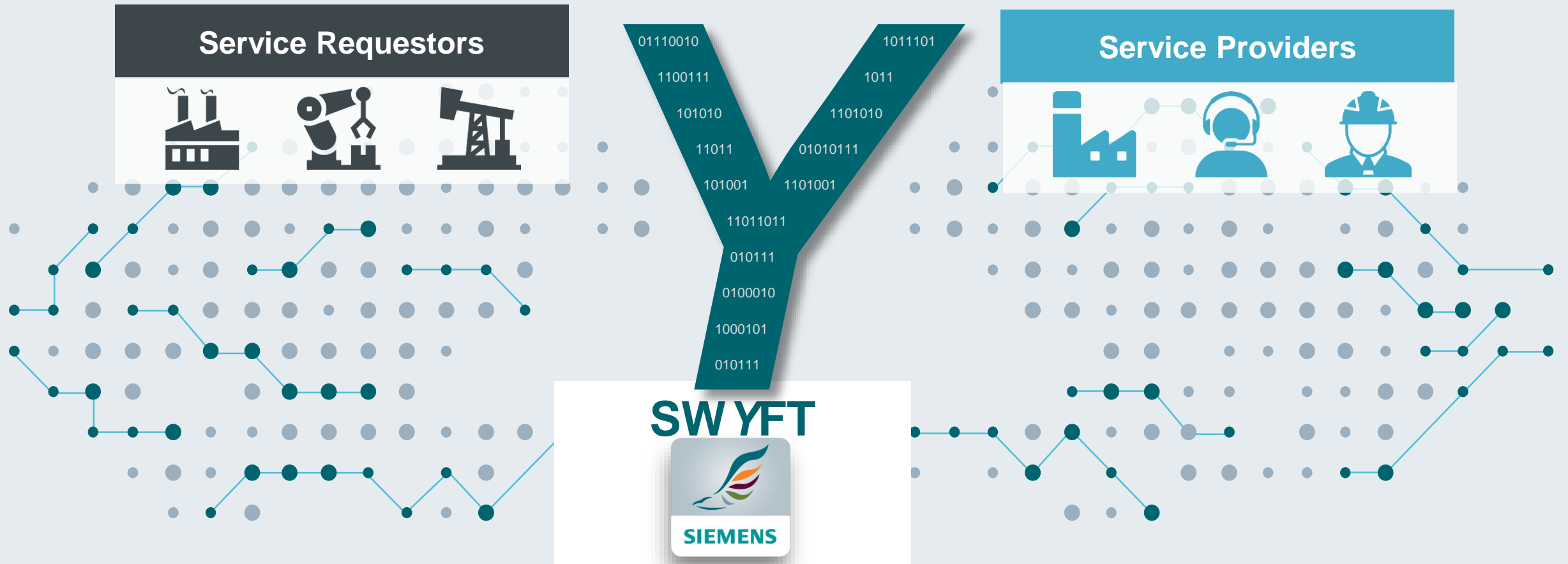
SW YFT™

**Industry Service
Gateway of the Future**

SW YFT™ – Industry Service Gateway of the Future

Gateway that connects End-Users & Service Providers digitally

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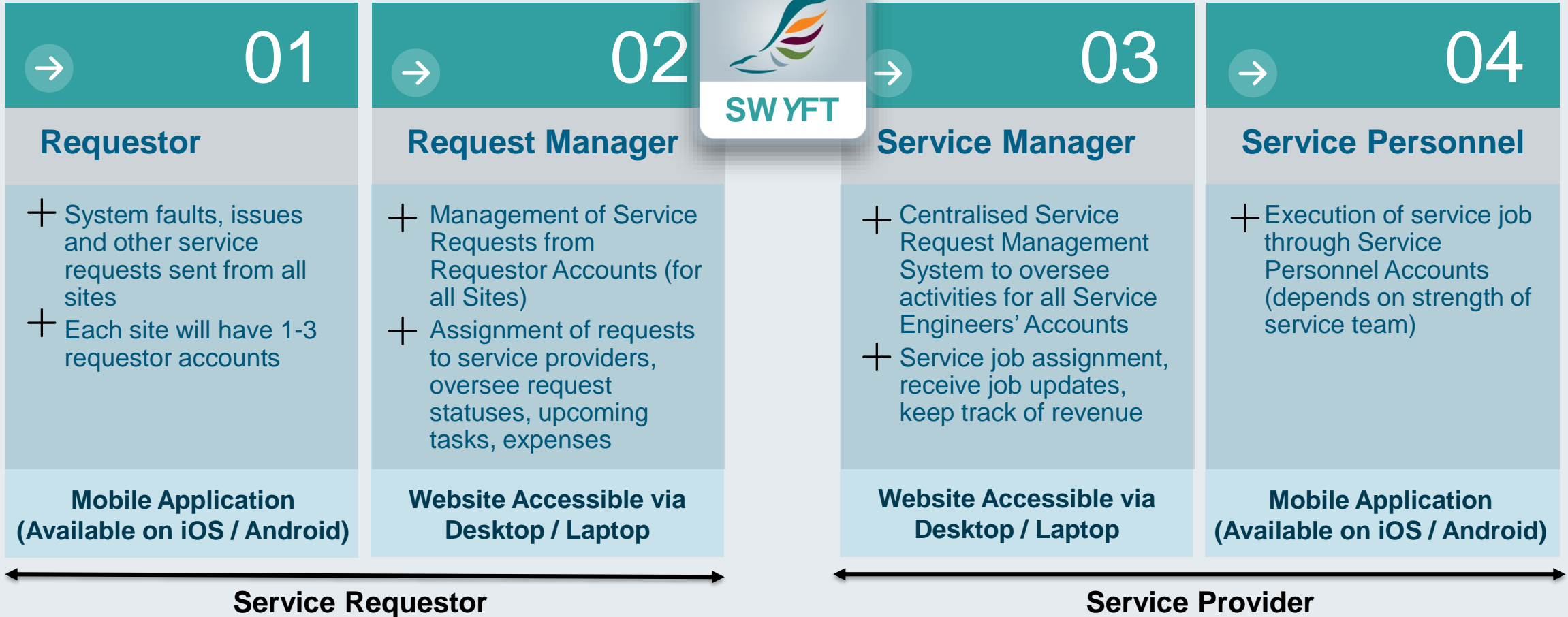
SW YFT collects service related data (e.g. service performance, maintenance expenses, engineer availability) to generate analytical reports and dashboards for factories, process industries, service providers

SW YFT System Setup that Connects

Modular Approach to Provide End-to-end Business Solution



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All requestor accounts for the sites will be connected to a centralized platform. Issues raised by requestors will be directed to this platform before being pushed to Service Providers.

All Service Personnel Accounts will be managed by the centralized Service Provider Content Management System (SP CMS). Requests received via SP CMS will be dispatched to service resources accordingly.

**SW YFT provides the
Solution**

SW YFT's features that address issues faced

Improving overall customer experience and satisfaction



Obtain service transparency

Digital Customer Satisfaction Ratings and Feedback

Time-stamped Service Delivery Milestones



Maintain accountability

Real-time Service Job Status

Service Job Plan and Scheduler Tools

Consolidates Contact Details of all Involved Parties



Achieve traceability

Quick access to past digital Service Records and Reports

GPS-Enabled Maps to locate Service Jobs and Engineers



Gain service business insights via data analytics

Analytical Charts (Pie-charts, Bar charts etc)

Analytical Tables (For leadership boards)

Analytical Time Metrics (Track time-critical KPI's)



Along with many other features

- Product brand agnostic with customizable product data pool
- Plug-and-play concept
- Connectivity to trusted business partners
- Single platform that consolidates all service data
- Captures and stores images and video clips
- Automated service job assignment
- Comment box for each service job
- Service report template available
- Checklist Repository
- Customizable push notifications
- GPS-enabled maps to direct service personnel to service job location
- ...

In-App View of SW YFT's End-to-End Service Flow

Obtain transparency to ensure quality service delivered



Digital Customer Satisfaction Ratings and Feedback

Job Information

No.:	UWRP00000000000112	Type:	Service request
Created Date:	Aug 14 2018 17:07	Repair On:	Aug 14 2018 17:48
SAP No:	500001093873 Edit	Urgent:	Urgent
Status:	In Progress	Progress:	Invoice Issued
Payment Amount:		Rating:	★★★★
Description:	Preventive Maintenance of Variable Speed Drives		

Customer Comments

job done as schedule, downtime of equipment was manageable, with the hot environment in the MCC room, your staff were able to complete the task, appreciate it. good job and well done. very professional, keep up the good work.

Instant feedback and ratings to monitor service quality

Time-stamped Service Delivery Milestones



Track Service team's Response times, Travel times, Repair times

Tasks

POS	BEGIN	END	DURATION	DESCRIPTION	ENGINEER
T001	23 Aug 2018 09:05 AM	23 Aug 2018 05:03 PM	7 Hour - 57 Minutes	Schedule preventative maintenance.	Lucy Tan

In-App View of SW YFT's End-to-End Service Flow

Maintain accountability for each service job



Real-time Service Job Status

✓ All | 136 Pending | 100 In Progress | Closed

JOB SUMMARY | JOB ACTIVITIES

Service Status at a glance

Job Information

No.: CHA0000000001038 **Type:** Preventive maintenance
Created Date: Oct 18 2019 12:52 **Repair On:** Oct 23 2019 20:51
SAP No: [Add](#) **Urgent:** Non-Urgent
Status: Pending **Progress:** Service Request Sent
Payment Amount: **Rating:** -

Service Job Plan and Scheduler Tools

Upcoming Service Jobs to help in resource planning

DATE OF REQ.	JOB ID	JOB TYPE	ENGINEER	STATUS
2019-10-29T11:00:00	CHA0000000001085	Service request	-	Pending
2019-10-29T10:47:00	CHA0000000001084	Service request	-	Pending
2019-10-19T19:32:00	CHA0000000001046	Service request	Lucy	In Progress
2019-10-18T12:52:00	CHA0000000001038	Preventive maintenance	-	Pending
2019-10-17T20:41:00	CHA0000000001033	Service request	-	Pending
2019-10-17T20:41:00	CHA0000000001034	Service request	-	Pending
2019-10-17T20:38:00	CHA0000000001032	Service request	-	Pending
2019-10-17T19:34:00	CHA0000000001028	Service request	Lucy	In Progress
2019-10-16T21:50:00	CHA0000000001001	Service request	Lucy	Pending
2019-10-16T21:37:00	CHA0000000001000	Preventive maintenance	-	Pending

In-App Service Scheduler Tool for dispatch

Service Scheduler

Home / EngineerTicket Scheduler

ENGINEER: [Dropdown] | Daily | Weekly | 17 July 2019, Today

ENGINEER	8 AM - 10 AM	11 AM - 1 PM	2 PM - 4 PM	5 PM - 7 PM
Engineer 1	Booked for Ticket #12345678 SR: Charles Energy Issue: Diode malfunctioning	AVAILABLE	Booked for Ticket #12345678 SR: Charles Energy Issue: Diode malfunctioning	Booked for Ticket #12345678 SR: Charles Energy Issue: Diode malfunctioning
Engineer 2	AVAILABLE	Booked for Ticket #12345678 SR: Charles Energy Issue: Diode Malfunction...	Booked for Ticket #12345678 SR: Charles Energy Issue: Diode malfunctioning	Booked for Ticket #12345678 SR: Charles Energy Issue: Diode malfunctioning
Engineer 3	AVAILABLE	AVAILABLE	AVAILABLE	AVAILABLE
Engineer 4	Booked for Ticket #12345678 SR: Charles Energy Issue: Diode malfunctioning	Booked for Ticket #12345678 SR: Charles Energy Issue: Diode malfunctioning	Booked for Ticket #12345678 SR: Charles Energy Issue: Diode malfunctioning	AVAILABLE
Engineer 5	Booked for Ticket #12345678 SR: Charles Energy Issue: Diode malfunctioning	AVAILABLE	Booked for Ticket #12345678 SR: Charles Energy Issue: Diode malfunctioning	Booked for Ticket #12345678 SR: Charles Energy Issue: Diode malfunctioning

PENDING TICKETS

- Ticket #12345678
SR: Charles Energy
Site: Singapore
Product type: Diodes
Product Brand: Rockwell
- Ticket #12345678
SR: Charles Energy
Site: Singapore
Product type: Diodes
Product Brand: Rockwell
- Ticket #12345678
SR: Charles Energy
Site: Singapore
Product type: Diodes
Product Brand: Rockwell
- Ticket #12345678
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Product type: Diodes
Product Brand: Rockwell
- Ticket #12345678
SR: Charles Energy
Site: Singapore
Product type: Diodes
Product Brand: Rockwell
- Ticket #12345678
SR: Charles Energy
Site: Singapore
Product type: Diodes
Product Brand: Rockwell

Consolidates Contact Details of all Involved Parties

END USER INFORMATION	SERVICE REQUESTOR INFORMATION	SERVICE PROVIDER INFORMATION	ENGINEER INFORMATION
 Site Singapore Site Singapore charlie.b@grr.la 977053412	 Charles Energy Site Singapore 535 Clementi Rd, Singapore 59948...	 Lucys Service Lucy lucy.tan@grr.la 123445122311 west coast	 Lucy Lucy1@grr.la 82897409 60 MacPherson Rd, Singapore 3486...

In-App View of SW YFT's End-to-End Service Flow

Achieve traceability to track all cases



Quick access to past digital Service Records and Reports

Conclusion

Simulation blocks ready for testing.

Tasks					
POS	BEGIN	END	DURATION	DESCRIPTION	ENGINEER
T001	26 Jun 2018 09:00 AM	26 Jun 2018 06:00 PM	9 Hour	Reconfiguration and coding	Lucy Tan
T002	29 Jun 2018 09:00 AM	29 Jun 2018 03:31 PM	6 Hour - 31 Minutes	Commissioning and checking	Lucy Tan

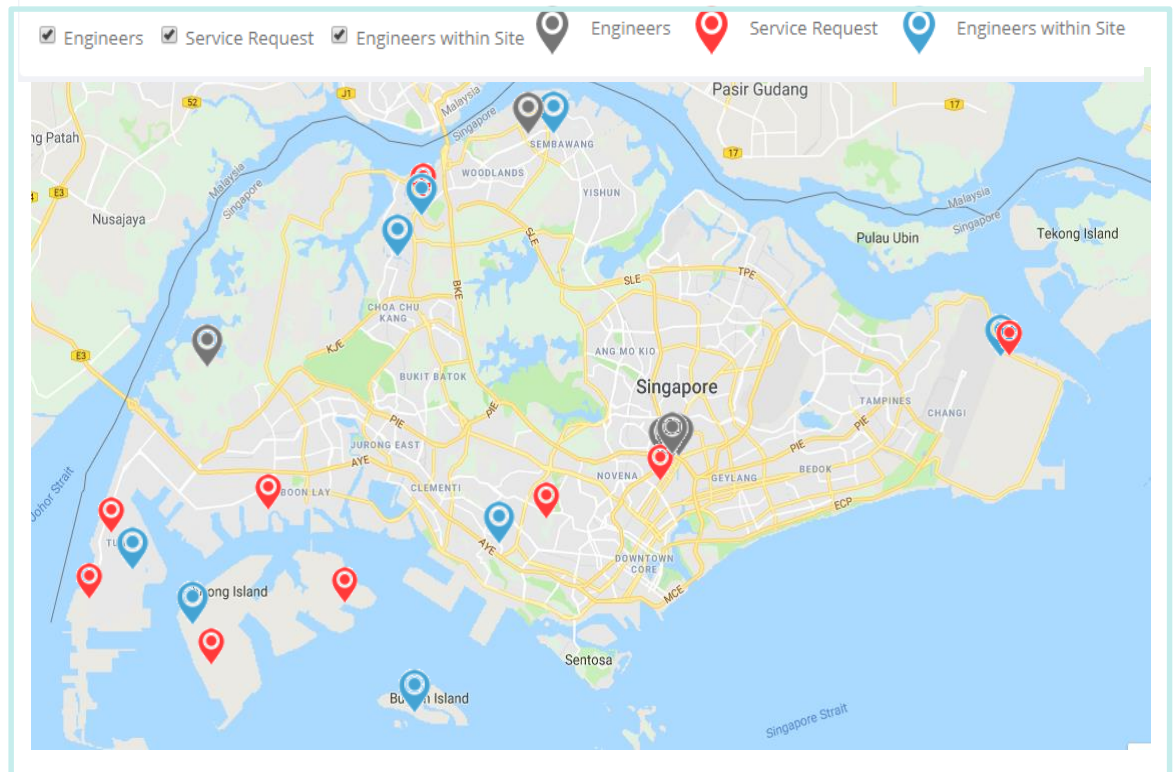

Signature Service Engineer
Lucy Tan

Review and verify service tasks performed quickly

No.: NGWD00000000000642 Type: Preventive maintenance Product Type:	Name: Lucy Tan Phone No.: 548397590 Email: Lucy.tan@gmail.com	Lucy Service	Dec 11 2018 13:52	Dec 13 2018 15:55
No.: NGWD00000000000630 Type: Preventive maintenance Product Type:	Name: Lucy Tan		Dec 07 2018 06:57	Dec 07 2018 11:35
No.: NGWD00000000000000 Type: Preventive maintenance Product Type:			Dec 07 2018 06:56	Dec 13 2018 17:17

Analyze Scheduled Maintenance Trends to Predict Next Inspection Date

GPS-Enabled Maps to locate Service Jobs and Engineers

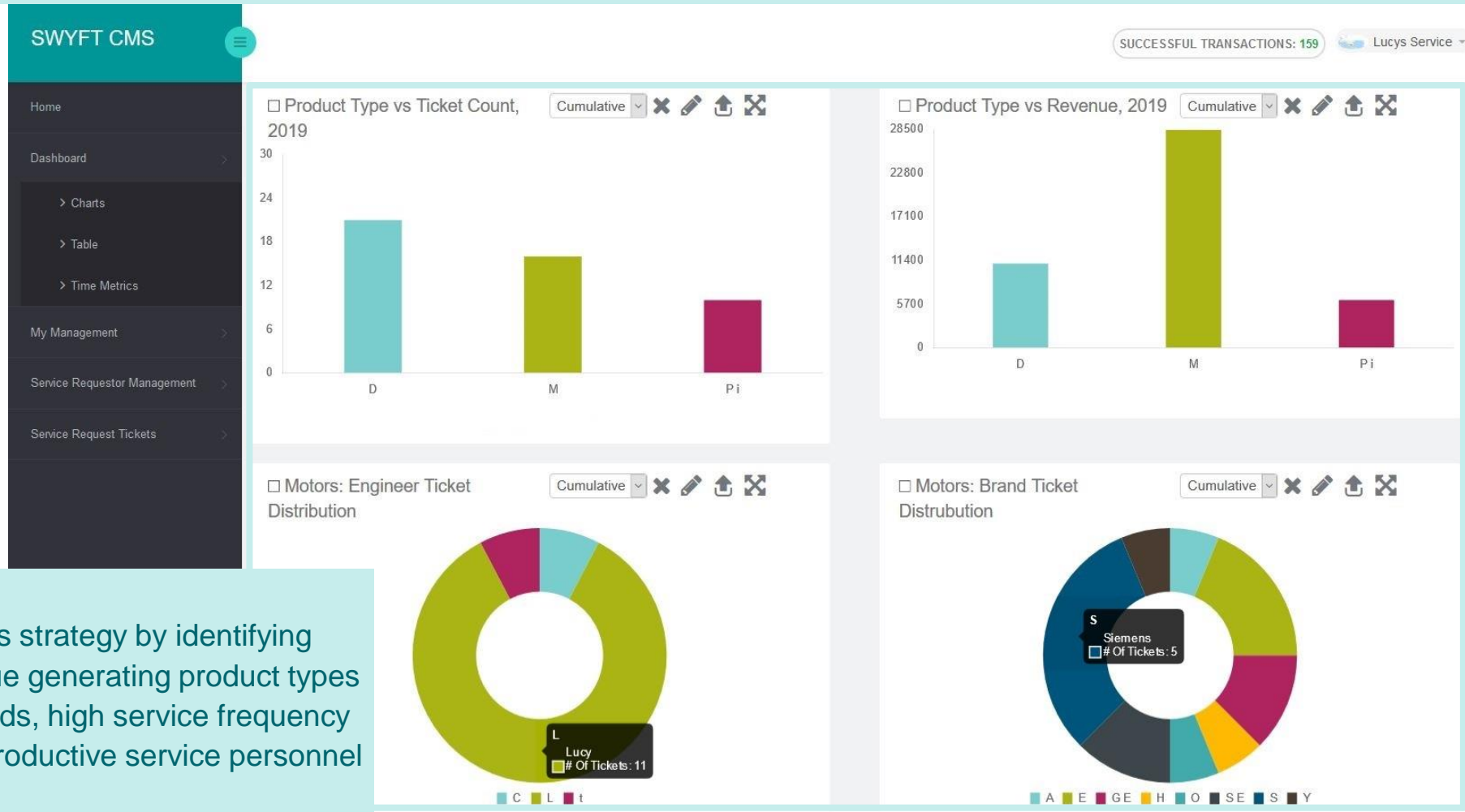


Optimize Service Job Dispatch by routing Service Engineer nearest to Service Request

Analytics of Service Data through SW YFT

Connected Service Platform that gives Service Insights – Charts

Analytical Charts: Comparison of Service Frequency, Revenue, by Product Brand, Type, Engineers ...



Derive sales strategy by identifying high revenue generating product types and/or brands, high service frequency products, productive service personnel

Analytics of Service Data through SW YFT

Connected Service Platform that gives Service Insights – Tables

Analytical Tables: Comparison of Service Resource's Performance

The screenshot displays the SWYFT CMS interface. On the left is a dark sidebar with navigation options: Home, Dashboard, Charts, Table, Time Metrics, My Management, Service Provider, and Service Request Tickets. The main content area is titled 'Tables' and includes a breadcrumb 'Home / Dashboard / Table'. There are two buttons: 'Create New Table' and 'Export As Excel'. Below these are two table entries: 'ENGINEER COMPARISON 2019' and 'ENGINEER COMPARISON - SEPT', each with 'DELETE' and 'EDIT' icons. A table is highlighted with a red border, showing performance metrics for four users.

USER GROUP	NO. OF TICKETS	REVENUE	AVG.RATING (Out Of 5)	TIME METRICS: AVG. MEAN TIME (In Hours)
James	12	\$ 5843.25	4	12
Tan PS	6	\$ 3618.02	3	9
Lucy	7	\$ 4361.75	4	10
Chang EY	14	\$ 9270.40	5	14

Comparison Table of KPI's such as number of service tickets assigned, revenue brought in through service jobs completed, average Customer Satisfaction Rating, average resolution time

Analytics of Service Data through SW YFT

Connected Service Platform that gives Service Insights – Time Metrics *Ingenuity for life*

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Analytical Time Metrics: Time-critical Performance Tracking by Service Milestones

The screenshot displays the SWYFT CMS interface. On the left is a dark sidebar with navigation options: Home, Dashboard (with sub-options for Charts, Table, and Time Metrics), My Management, Service Provider, and Service Request Tickets. The main content area is titled 'Time Metrics' and includes a filter for 'ENGINEER PERFORMANCE'. A table displays performance data for several engineers, with columns for various time metrics. A 'KPI Target' row is at the top, followed by rows for James, Tan PS, Lucy, and Chang EY. The table uses color coding: green for values within or below target, and pink for values exceeding target.

USER GROUP:SR SITE	MEAN-TIME TO RESOLUTION (In Hours)	SR CMS EFF (In Hours)	SP OPERATIONAL EFF (In Hours)	SP RESPONSE TIME (In Hours)	REPAIR TIME (In Hours)	SCHEDULED TIME DEVIATION (In Hours)	COMMERCIAL PROCESS CLOSURE (In Hours)
KPI Target:	72	1	48	4	8	0	36
James	73	2	48	2	16	0	34
Tan PS	58	0	44	1	8	0	43
Lucy	68	2	45	1	6	0	37
Chang EY	63	0	48	3	8	0	28

Track service team's efficiency in entire service delivery workflow from response time to repair time to overall mean time to resolution using Table of Time Metrics

SW YFT's Benefits for Service Providers

Built for service optimization and quality improvement

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Plug-and-play Concept

SW YFT is a standalone solution which can be used across all platforms – iOS, Android and web. Convenient and easy-to-use application, SW YFT onboarding takes less than 2 hours!



Service Scheduler

In-app tool that allows incoming and pending service jobs to be quickly dispatched to an available and product-competent service resource. Full view of service team's schedule to help in resource management.



Digital Report, Sign-off, Satisfaction Rating

Service data can be easily retrieved as it is digitally stored in a single platform. Service task logs and reports are readily accessible to improve on the traceability of jobs performed.



Analytical Dashboards

Consolidated service data can be presented in various formats to analyze and compare key service performance indicators such as engineer's efficiency, service frequency, business volume based on product brand or type.



End-to-end business solution

Ensuring both service requestors and service providers are aligned and stay updated on the progress of their service activities through a digital tool.



SW YFT – Customer Use Case in the Philippines

An analysis of use case to help improve application



Customer Industry:

Facility Management

Period: Nov 2018 – to date

Highlights: Customer (Service Provider) uses SW YFT to collect data on their service activities.



The Philippines

Benefits to Customer

- Dashboard visualizes service activities for management review
- Technicians are able to experience a more digitalized service operations
- Service staff are able to track their service KPI's through SW YFT
- Application helps to ensure high Service Quality to Service Requestor

Identified Challenges

- SWYFT is not optimized for language editing
- Minor synchronization issues between front- and back-end
- Poor mobile data connectivity in the factory
- Electronic devices are prohibited in some areas of the shopfloor

Proposed Solutions

- Comment boxes made available for all the users (for local language inputs)
- SW YFT development and maintenance team has identified high priority tickets to resolve first, followed by the next priority level (continuous effort)
- Application automatically uploads data once stronger connectivity is detected
- Web application has been made available

“We would like to thank Siemens for letting us use SW YFT to improve our service quality and reach the expectations of our client.”

Customer's feedback
Business Unit Manager of
Customer

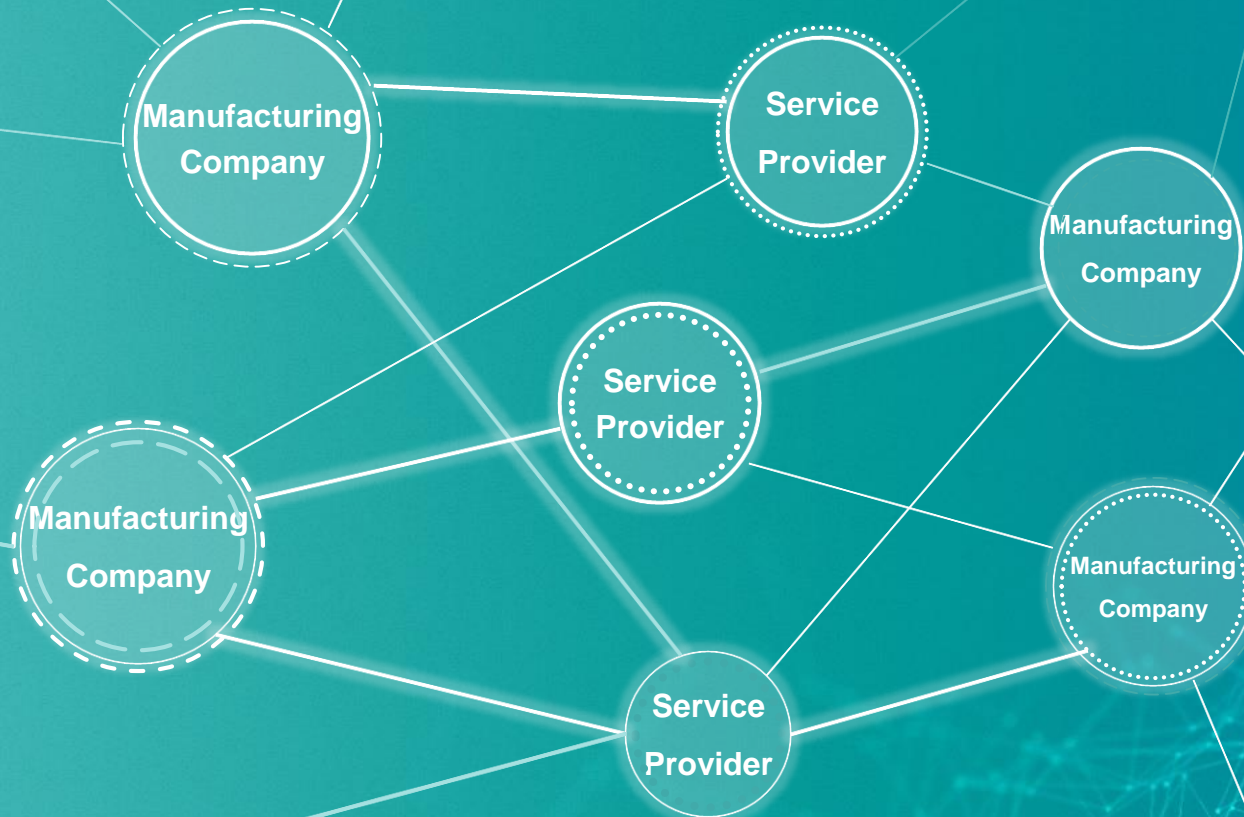
Transformation into Service Marketplace

Vision of SW YFT: Industry Service Marketplace

Connecting One to Many in the SW YFT Network



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- Smart Devices Connectivity
- Predictive Maintenance
- Suggested Connections
- Intelligent Asset Management
- Digital Payments

SWYFT in Vietnam

Quarter 1 2020 targeted launch



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TRIAL AVAILABLE FOR VIETNAM

Thank You!

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