CMS Electracom

CMS ENGAGE SMART WORKPLACE TECHNOLOGY

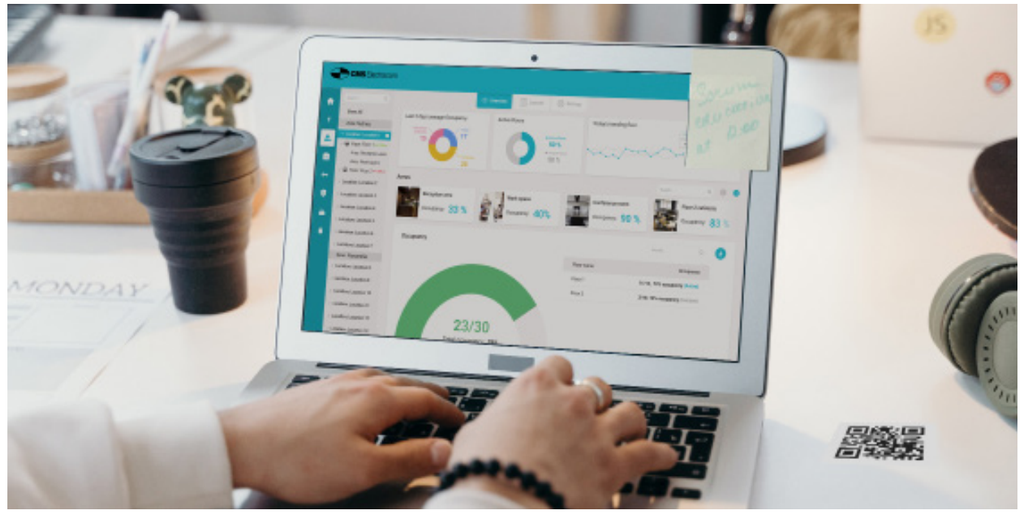
PRODUCT BROCHURE

CMS Engage
The Evolution of Softwiring

As the modern workplace continues to evolve, the challenge today is to ensure it is working more efficiently and effectively. Understanding how the workplace is being used, with consideration of power consumption and its impact on our environment are just some of the challenges enterprise face today. Just as important, employees require the tools to book and reserve space remotely or when in the office to remain engaged and productive.

CMS Engage is a smart workplace technology solution, digitalising the seamless interactions between employees and the workplace, while property and facility managers monitor space utilisation and energy consumption to provide insightful analytics on how their workplace is being utilised.

WHY WE DEVELOPED ENGAGE



The Current State of Work

As the modern workplace continues to evolve, the challenge today is to ensure it is working more efficiently and effectively.

Future-proofing the workplace

Delivering companies, the ability to create a people-orientated workplace that empowers creativity and productivity.

Wellbeing at the forefront

Demonstrating a tangible improvement to employee experience when interacting with their place of work.

Smart Workplace Technology

The result of immersing ourselves into the world of smart power and technology. The team at CMS sought to evolve power at the desk to deliver a completely new experience and potential for users and administrators.

Engage Difference

Return to normalcy

With 2020 presenting a shift in how the office is viewed and used, CMS Engage assists in restoring confidence to safely return to the office administrators can now present employees clear visibility on appropriately distanced, cleaned and ready-to-use workspaces including workstations, conferencing and quiet rooms.

Total control

CMS Engage delivers unrivalled energy management and reporting accuracy with Smart Cell, which can completely de-activate and energise workstations from the wiring backbone. This allows administrators to redeploy workspaces in line with social distancing.

Empower productivity through insight

CMS Engage desktop platform delivers administrators powerful insights into how spaces are used. Accurate reporting on energy usage and workspace occupancy empowers administrators to make informed decisions.

Seamless Integration

All energy and occupancy analytics gathered by CMS Engage can be ported into a centralised building management system via open API, or used as a stand-alone platform.

Unprecedented Energy Management

CMS Engage integrates into the workstation's structured cabling. This gives administrators the unique capability to pre-set workstations to shut-down and energise on-command based on the user's check-in/out procedure.

Inspire Confidence Through Visibility

In advance, employees can review, reserve and check-in to available and safe-to-use workstations or meeting rooms on their mobile device via the CMS Engage desk-reservation app.

SCOPE OF SERVISE

Upon successful project submission and tender, clients can expect the following scope of service from CMS:

- A completed commercial agreement covering all aspects of CMS products and services provided.
- Acknowledgment of the project requirements checklist.
- Professionally drafted Itemised drawings identifying hardware type and locations, zones for gateway pairing and gateway locations (recommended), colour coding for product identification.
- Associated hardware packed and delivered according to schedule in
- kit-form by zone & floor level (if applicable).
- Access to CMS Technology and Design personnel who assist in overseeing delivery & initial integration of CMS hardware and software. Refer to SLA for full details.
- After sales service and support, both on-site and remotely via CMS sales, product and software engineering teams:
  - Localised call centre support.
  - Global network of CMS sales and technical staff to assist on-site.
  - Extensive product and software commissioning guides and videos.
  - Complete product and software certification and compliance documentation.

WE CONNECT YOUR WORLD

... AND WE LIKE TO DO IT PERFECTLY

SOME OF OUR PROJECT PARTNERS

nab
CommonwealthBank
ANZ
Westpac
MACQUARIE BANK
SUNCORP
AMP
Allianz
Australian Government Department of Foreign Affairs and Trade
UTS
WESTMEAD HOSPITAL
NSW GOVERNMENT Health Western Sydney Local Health District
ZURICH
Deloitte.
BHP
RioTinto

PRODUCT

Above the Desk

1. Status indicator

» Shows status of the work station above the desk via illuminated 50mm tile.
» Integrates into CMS Athena above desk power rail and Echo in-desk power modules.
» Can be to used to manually toggle between status modes via built-in capacitive switch.

Available Booked To be cleaned

Meeting In use Do not use

Below the Desk

2. Occupancy sensor

» 3 sensors to accurately report movement, presence and desk-height status (for height-adjustable workstation application).
» Integrates with CMS Engage Smart Cell to transmit occupancy data.
» Utilises Zigbee 3.0 and Bluetooth 5.1 via wireless mesh network.
» Power activation mode.

3. Smart cell

» Power monitoring and management.
(On/Off, Schedule tasks, Zigbee 3.0, BLE 5.1 with mesh capability).
» Automatic reporting - power/energy analytics.
» Compatible with Engage sensor - occupancy and sit/stand detection.
» Simple 3 step paring method or can come pre-pared.
» Compatible with Engage statistic dashboard.
» Softwired structure.
» Compatible with Engage status indicator used above the desk.
» Physical reset button for on-site override.

In the Ceiling

4. Gateway

» The gateway acts as a portal to deliver event data of up to 200 devices to our Australian Based Amazon AWS cloud dashboards and mobile app while forming a wireless mesh system in-between and to our smart devices using Zigbee 3.0 and Bluetooth 5.1.
» Receives data communication from up to 200 Smart Cells and uploads to the network to be integrated into the user's building management system.
» REST API for easy into 3rd party building management platforms.

SMART SENSOR

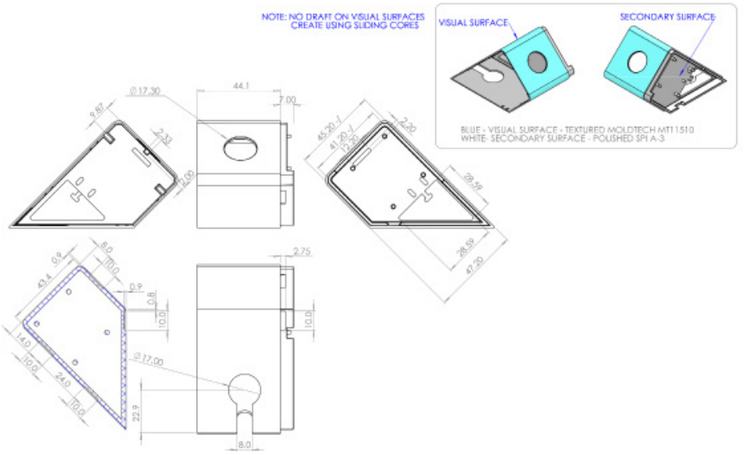
TECHNICAL DATA	DESCRIPTION
INPUT VOLTAGE (V)	5V, 50/60HZ, 0.25A MAX
PROTOCOLS SUPPORTED	ZIGBEE AND BLE 5.0
OPERATING TEMPERATURE	0~50 °C, 0% - 90% RH
ON-BOARD SENSORS	MOTION SENSOR, TEMPERATURE SENSOR, & ULTRASONIC SENSOR
ZIGBEE PROFILE	HA 1.2 PROFILE
PIR HUMAN MOVEMENT DETECTION RANGE (METERS)	UP TO 5M CEILING TO FLOOR
HUMAN PRESENCE/AVAILABILITY DETECTION RANGE (METERS)	UP TO 2M WITH 80 DEGREE ANGLE
HEIGHT DETECTION RANGE (METERS)	UP TO 2M
AMBIENT TEMP DETECTION	0°C TO 60°C
LED COLOR OF SMART SENSOR	
GREEN	AVAILABLE
CYAN	IN USE

SMART CELL

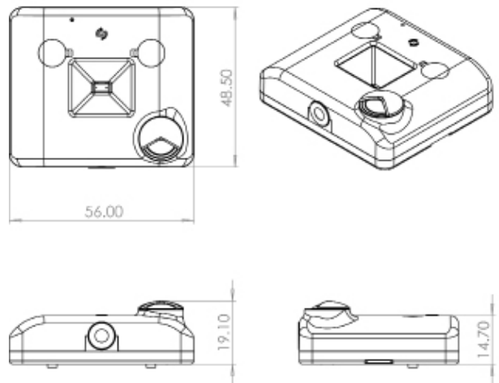
TECHNICAL DATA	DESCRIPTION
INPUT RATINGS	80 -280V AC(SINGLE PHASE), 50/60HZ
OUTPUT RATINGS	80 - 280V AC(SINGLE PHASE), 50/60HZ
STANDBY POWER	< 1.0W (IN AP MODE)
MAXIMUM WITHSTAND VOLTAGE	< 280V AC (L-N) CONTINUOUS
NUMBER OF LOAD CHANNELS	80 - 280V AC - 1 NO 5V USB DC X 2 @ 0.5 AMP EACH 5V ETHERNET PORTS FOR RGB & RFID
MAXIMUM LOAD RATING	20 AMPS IN AC OUTPUT 1.3 AMPS TOTAL WITH 2 USB OUTPUTS
PROTECTIONS	
OVERVOLTAGE PROTECTION	280V
UNDERVOLTAGE PROTECTION	80V
OVERCURRENT PROTECTION	20A TOTAL
COMMUNICATION	
WIRELESS FREQUENCY & MODULE	ZIGBEE HA 3.0 PROFILE AND BLE 5.0
ENVIRONMENTAL	
TEMPERATURE	OPERATING: 0O TO 50OC STORAGE: -20° TO 70°C
RELATIVE HUMIDITY < 90%	< 90%
STATUS INDICATORS OF SMART BOX	
RED LED ON	LOAD ON
RED LED OFF	LOAD OFF
SOLID BLUE	CONFIGURED AND CONNECTED TO THE GATEWAY
BLINKING BLUE	DEFAULT MODE (WHEN NOT ADDED TO GATEWAY)
SWITCH FUNCTIONALITY (TOGGLE SWITCH)	
SWITCH 1	ON/OFF (RELAY)
SWITCH 2 - PAIRING BUTTON	PRESS AND HOLD THE BUTTON FOR 7 SECONDS THE DEVICE WILL BE ADDED/DELETED

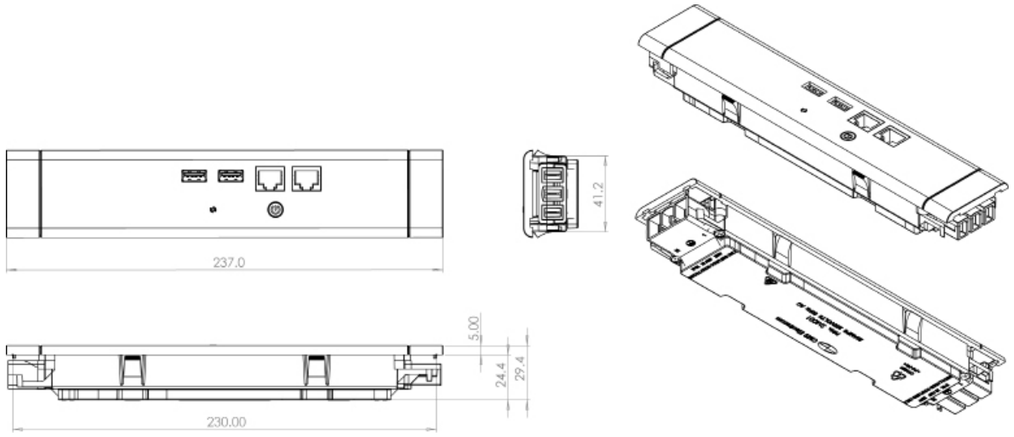
GATEWAY

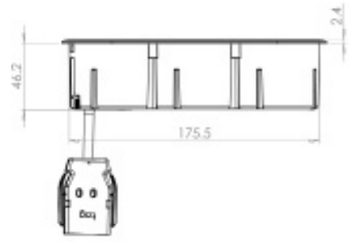
TECHNICAL DATA	DESCRIPTION
IN PUT	100 ~ 240V, 50/60HZ, 0.25A MAX
OUTPUT	5V DC, 1.2A
PROTOCOLS SUPPORTED	WIFI (2.4 GHZ), BLE, ZIGBEE AND IR (INFRARED)
RANGE	WI-FI : UPTO 30 METERS ZIGBEE: UP TO 100 METERS. THIS WILL BE REDUCED WITH NUMBER OF WALLS IN BETWEEN THE END NODE AND CONTROLLER. BLE: UP TO 20 METERS
CHANNEL SELECTION	ZIGBEE CHANNEL SELECTION AVAILABLE
OPERATING TEMPERATURE	0° C TO 40° C
DIMENSIONS	140 X 140 X 20.5 MM
AMAZON ALEXA INTEGRATION	YES
GOOGLE ASSISTANT INTEGRATION	YES
STATUS INDICATORS ON GATEWAY	
SOLID RED	READY TO CONNECT/CONFIGURE AND NOT ADDED TO ANY ACCOUNT
BLINKING RED	UNABLE TO CONNECT TO THE ACCESS POINT OF HUB, I.E. ACCESS POINT IS NOT AVAILABLE.
BLINKING BLUE	HUB IS TRYING TO CONNECT TO IT'S ACCESS POINT AND HUB ACCESS POINT IS NOT HAVING INTERNET
SOLID BLUE	ADDED TO ACCOUNT AND IT'S FULLY FUNCTIONAL (HUB IS CONNECTED TO ACCESS POINT)

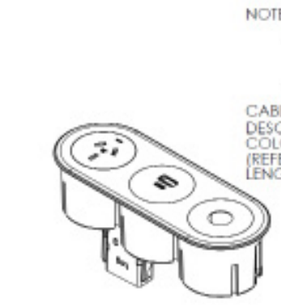


NOT FOR PRODUCTION

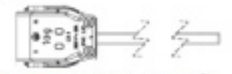






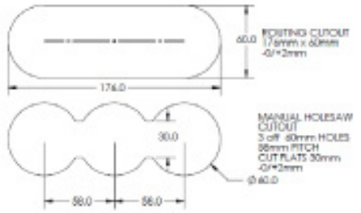


NOTE:

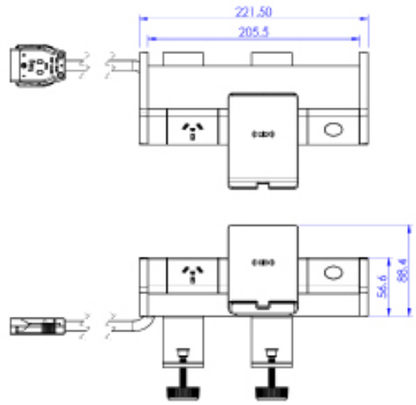


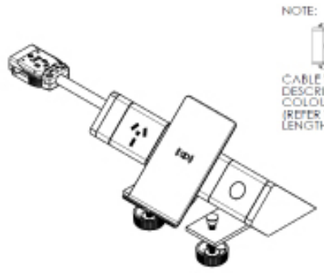
CABLE TYPE: 3 CORE x 2.5mm²
DESCRIPTION: TAG CONNECTOR LEAD
COLOUR: WHITE OR BLACK
(REFER TO PURCHASE ORDER)
LENGTH (mm):

XX	LENGTH (mm)
05	500
10	1000
15	1500
20	2000
25	2500
30	3000
35	3500
40	4000
45	4500
50	5000



COLOUR VARIATIONS		
PART NUMBER	PLASTIC COMPONENTS	EXTRUSION
WT	WHITE	ANODISED SILVER
BK	BLACK	ANODISED SILVER
BK/BK	BLACK	POWDERCOATED BLACK MANNINGS
WT/WT	WHITE	POWDERCOATED WHITE SATIN
WT/MA	WHITE	POWDERCOATED WHITE MANNINGS

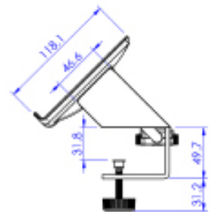




NOTE:

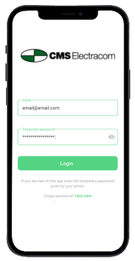
CABLE TYPE: 2.5MM
DESCRIPTION: TAG CONNECTOR LEAD
COLOUR: WHITE OR BLACK
(REFER TO PURCHASE ORDER)
LENGTH (mm):

XX	LENGTH (mm)
05	500
10	1000
15	1500
20	2000
25	2500
30	3000
35	3500
40	4000
45	4500
50	5000

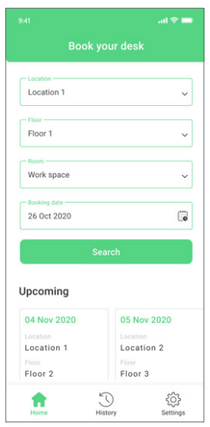


CMS ENGAGE BOOKING APP

Advantages

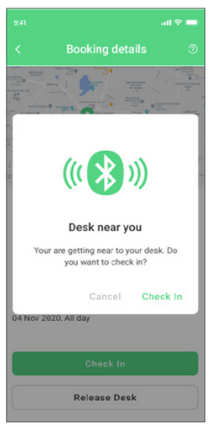


- » No check in - no power
- » Automatic check in with proximity over BLE
- » QR Code generation for desks with no smart products and power
- » Simple and user friendly
- » Admin, concierge, cleaner and user platform all differ upon log in
- » Report generation
- » Flagging desks where required by user
- » Concierge and cleaner capable of releasing desks - COVID Safe

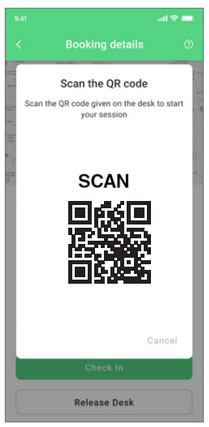


Choosing location and date

Selecting desk on floor map

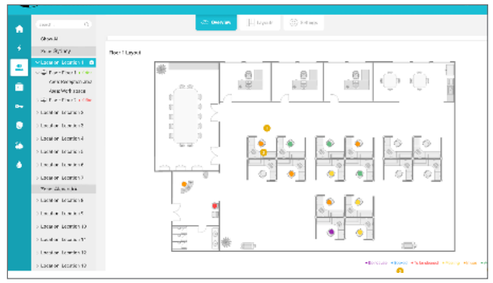


Auto check-in when approaching desk



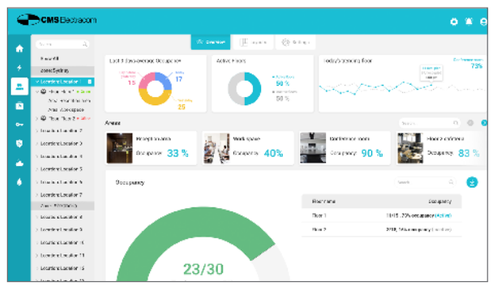
Manual check-in via QR code scanning

ANALYTICS DASHBOARD



Live floor layouts

» Floor layouts and live status can be used with Floor kiosk to show desk status with live readings from multiple sites to a single area per level.



Occupancy and space utilisation

» Utilise the ability to remotely de-activate workstations for social distancing.

» Accurately provide cleaning schedules for cleaning staff to indicate safe-to-use workstations.

» Ability to deliver usage and occupancy insights to determine peak usage and capacity with time-lapse heat mapping.

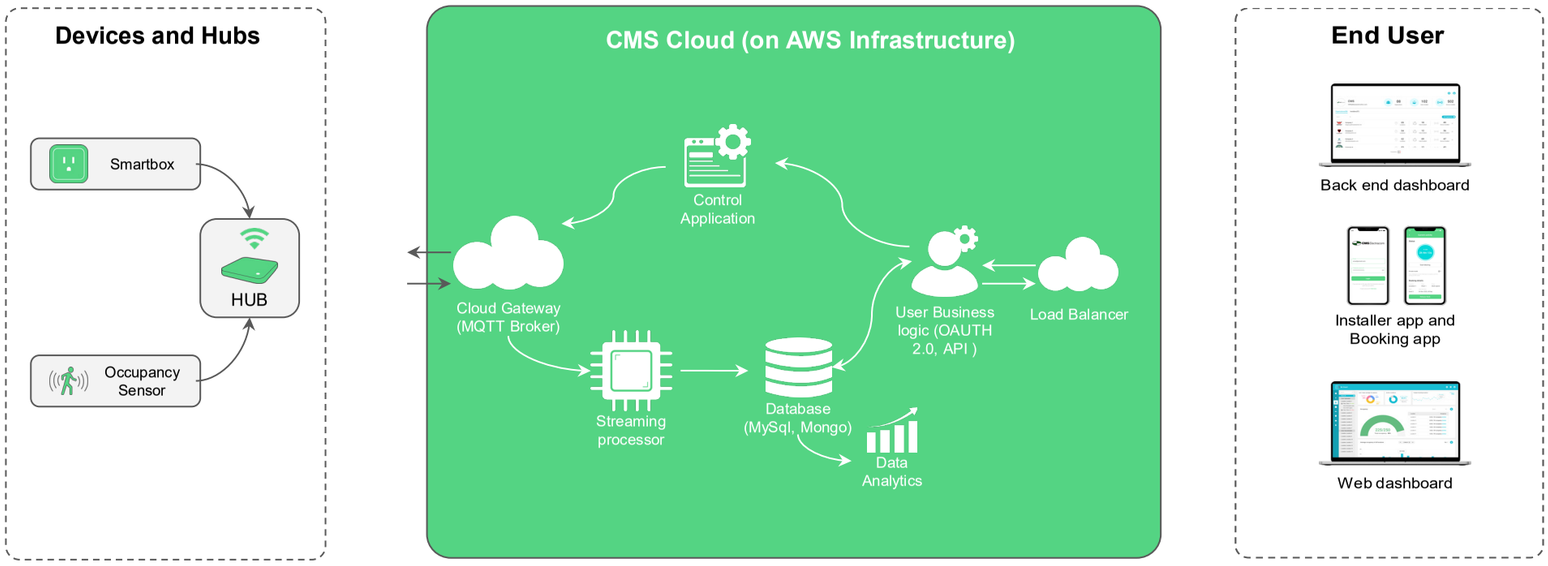
Energy management overview

» Provide a more complete picture of energy consumption by integrating workstation power usage in to the existing building management system together with HVAC, lighting and security.

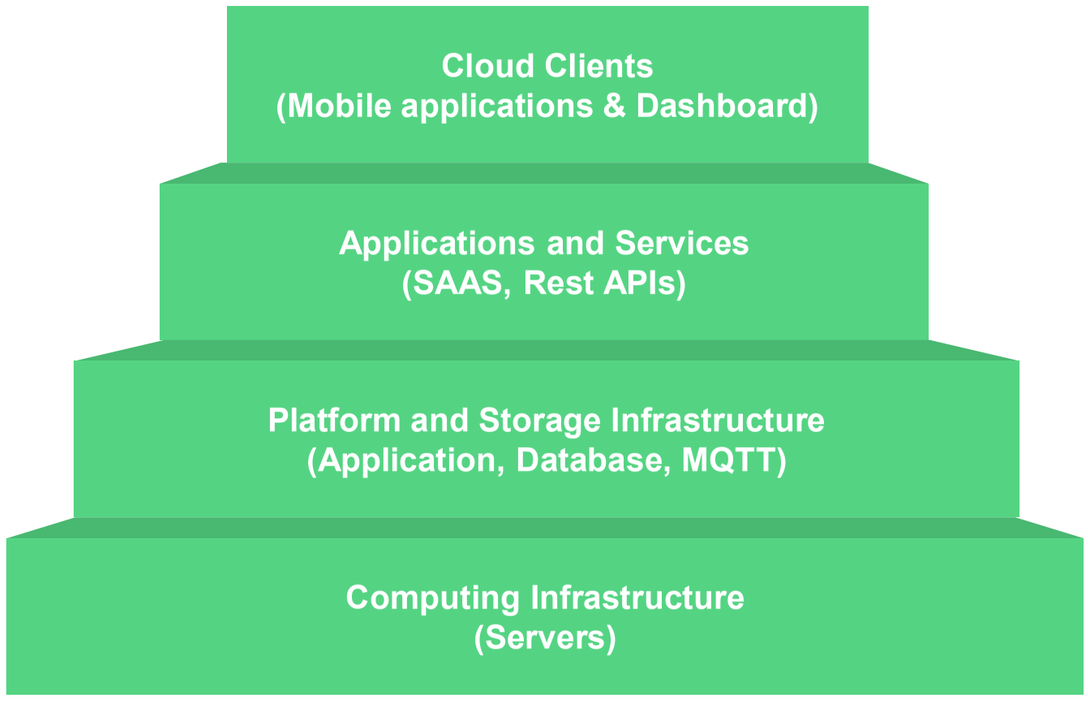
» Engage enables the ability to shut-down workstations completely when they are not in use, and energise it when a successful check-in procedure has been completed.

CMS ARCHITECTURE

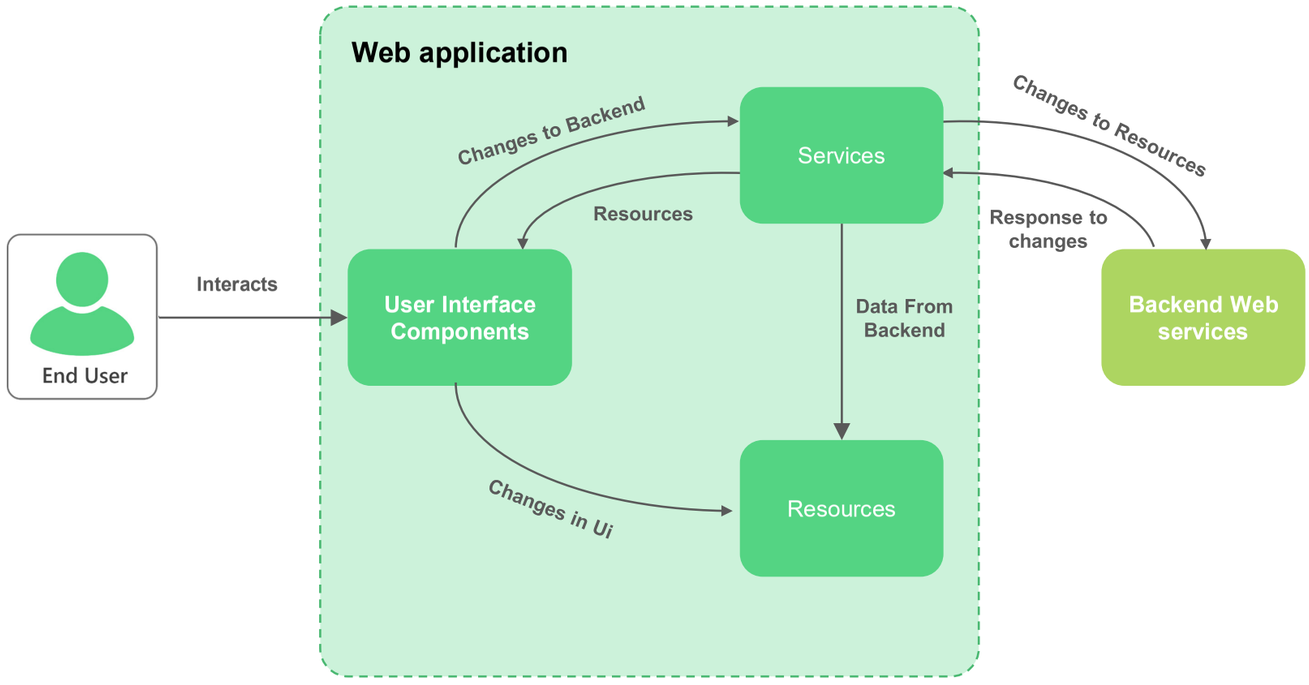
Architecture - Overview



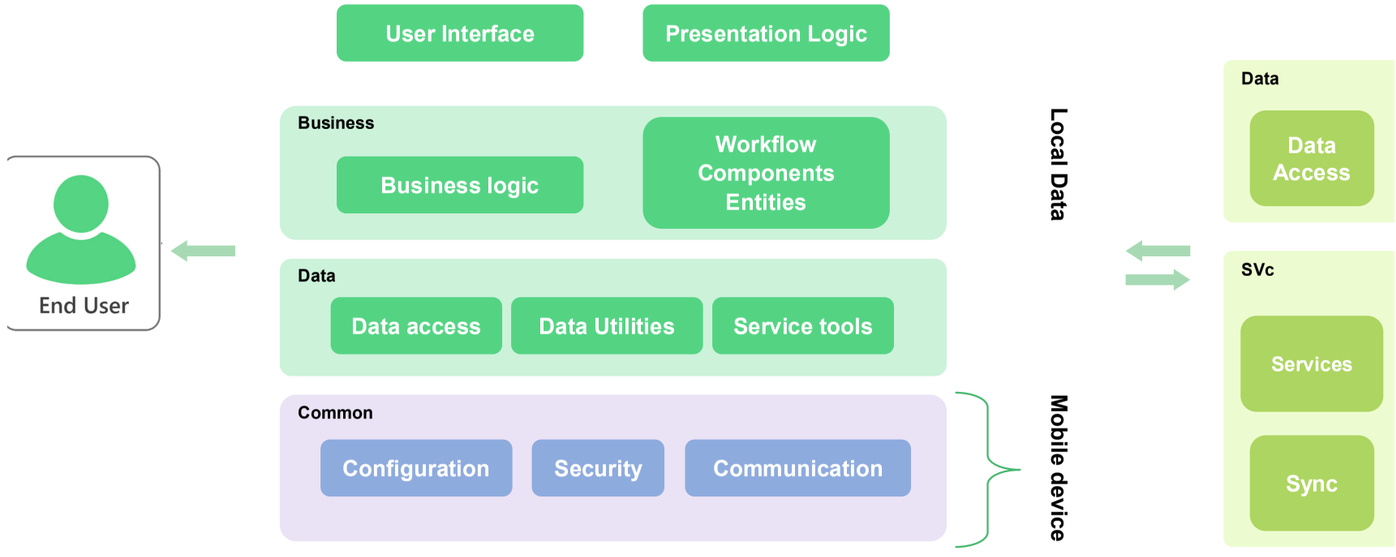
Architecture - Overview



Architecture - Overview



Mobile Apps

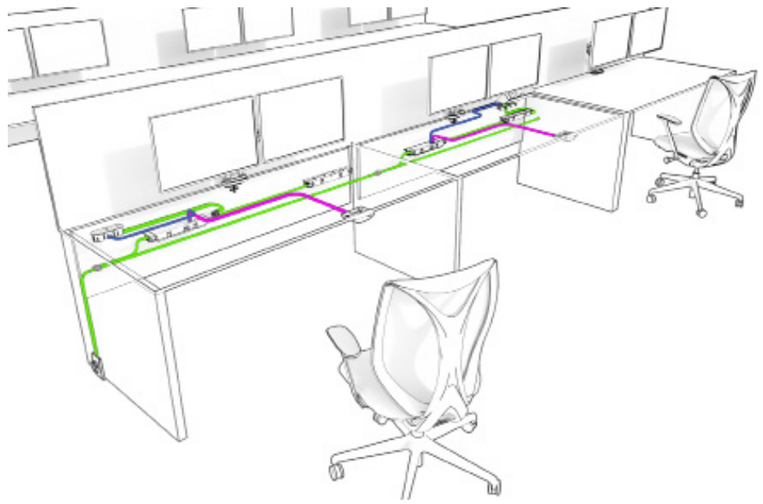


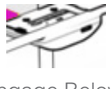
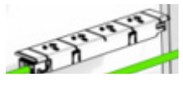
ENGAGE SYSTEM OVERVIEW

HARDWARE OVERVIEW

1. Above-desk status indicator c/w power and charging.
2. Below-desk occupancy sensor.
3. Below-desk smart power cell.
4. In the ceiling smart hub gateway.

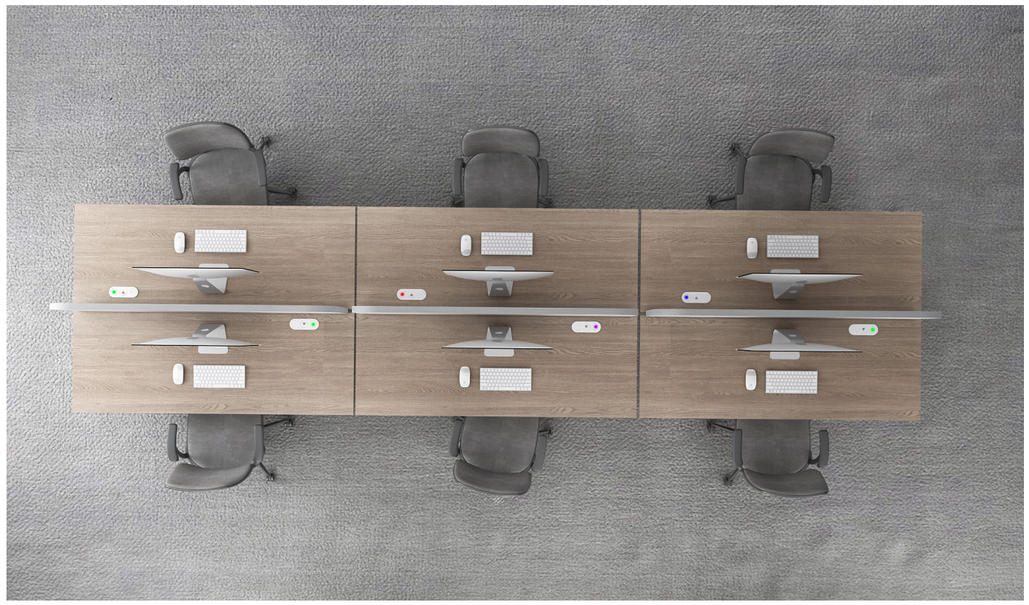
HARDWARE INTEGRATION



CMS SOFTWIRING STANDARD EQUIPMENT	Cms Engage Technology Equipment	Standard Aftermarket Equipment
Cms Softwiring Starter Socket - Female	Cms Engage Status Indicatorecho-In Desk Module	Rj45 Data Cable
Cms Softwiring 1-In (Male) -2-Out (Female) Splitter	Cms Engage Status Indicatorathena Above-Desk Power Rail	Usb-A To Usb-B Micro Cable
Cms Softwiring Cable Male To Female	 Cms Engage Below-Desk Sensorthermal, Time-Of-Flight, Ambient Temp	
 Cms Softwiring Gpo	CMS ENGAGE SMART CELL MODULEBLUETOOTH, ZIGBEE 2 X USB-A PORTS, 2 X RJ45 PORTS	

Shared Workstations

Shared or hot desks have undergone evolution to cope with the demands of the pandemic, CMS Engage delivers workplace managers the ability to use powerful software and smart hardware to distance and contact-trace desks. CMS Engage can also control power to the desk as part of the check-in process, and desks can be deactivated to distance staff safely.



Collaborative Spaces

Engage can assist office managers to deliver more thought-out collaborative spaces for staff to book and interact with. By being able to review usage over time with heat mapping, administrators can identify over and under-utilised spaces and modify as required to build a better environment with real-time occupancy data

Conferencing Areas

With larger capacity, high-traffic meeting rooms, Engage can ensure conferencing spaces are cleaned after each meeting and marked ready to use for the next user, this visibility is key for employees via the Engage desk-booking app for staff to identify clean and available meeting rooms to book for the next team meeting

MEET THE TEAM

And what we do!

We are driven by creating solutions that deliver results for your business.

National Sales & Customer Service

JASON
General Manager - Sales & Marketing

ADAM
National Sales Manager

BRETT
Sales Manager - National Projects

ALISON
Customer Service Manager

JEMMA
Customer Service - Major Projects

Projects Estimating

NIK
Senior Estimator

MICHAEL
Estimator

Product Engineering & Compliance

NAJI
Product Engineer - Technology

RAJ
Design & Product Development / Program Manager

DIVYESH
Software Engineer

MICHAEL
Global Quality - Compliance Manager

PRODUCT BROCHURE

MEET THE TEAM

And what we do!

NSW & ACT

NERIDAH
Sales Executive - NSW & ACT

ELLIOT
Sales Executive - NSW & ACT

VIC, SA & TAS

DMITRY
Sales Executive - VIC, SA & TAS

NATHAN
Sales Executive - VIC, SA & TAS

QLD & NT

KURT
Sales Manager - QLD & NT

ANGUS
Sales Executive - QLD & NT

WA

JARRAD
Sales Manager - WA

New Zealand

SCOTT
New Zealand Manager

JASON
Key Account Manager- NZ

REGIONAL OFFICES

AUSTRALIA	1300 159 159
NEW ZEALAND	(09) 582 0776
SINGAPORE	+65 9006 0767
MALAYSIA	+60 162 077 106
UNITED KINGDOM	+44 (0) 7531 162 631
UNITED STATES	+1 214 238 8296

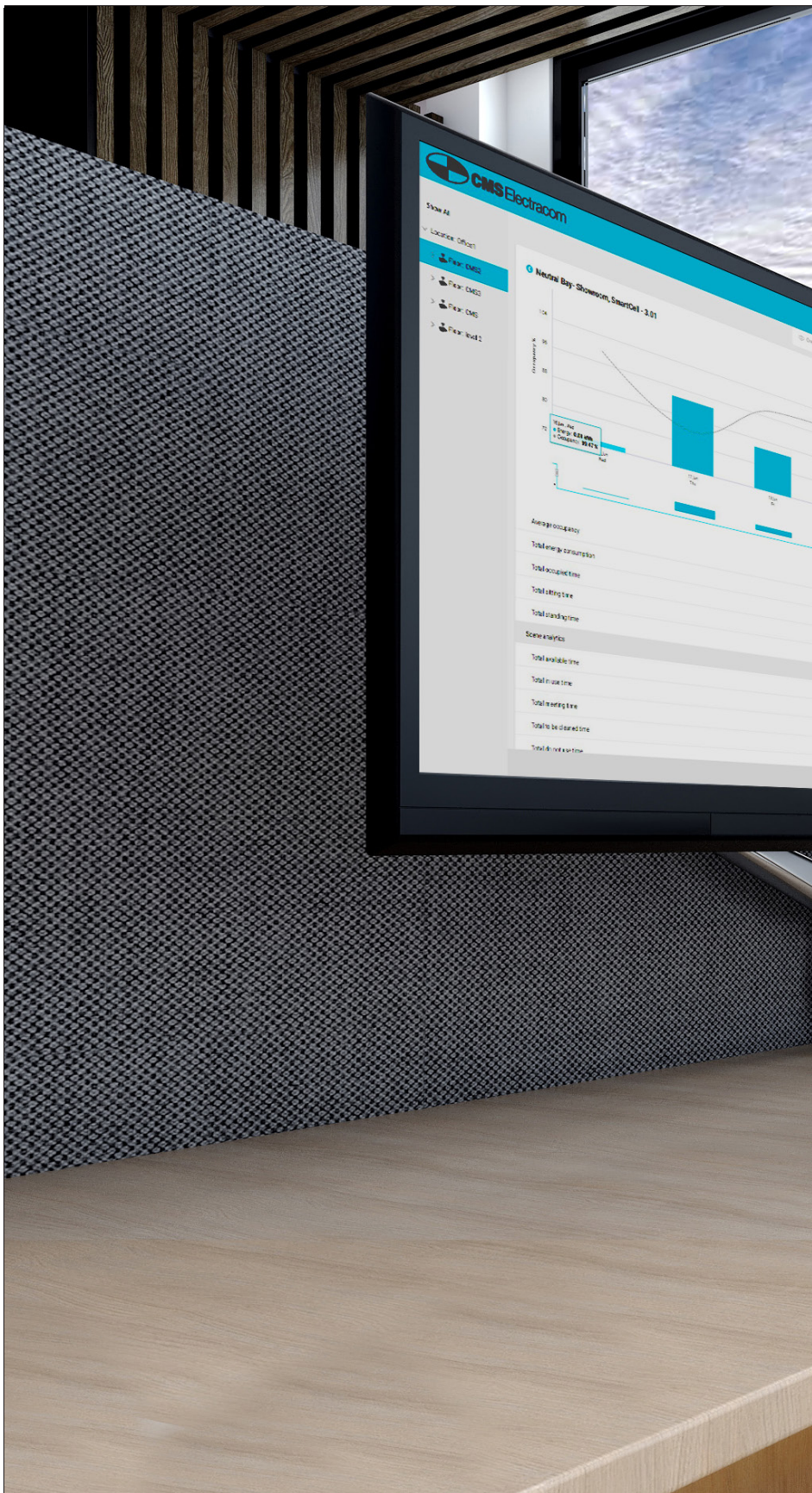
SALES & TECHNICAL SUPPORT

Sales: sales@cmselectra.com

Estimating: estimating@cmselectra.com

Tech Support: techsupport@cmselectra.com

CONNECT WITH US

WWW.CMSELECTRA.COM

DISCLAIMER:
CMS HAS MADE EVERY ATTEMPT TO ENSURE THE ACCURACY AND RELIABILITY OF THE INFORMATION PROVIDED IN THIS DOCUMENT ARE CORRECT. ALL INFORMATION CONTAINED IN THIS DOCUMENT IS TO BE USED FOR GENERAL GUIDANCE ONLY. CMS RESERVES THE RIGHT TO CHANGE, DELETE OR MODIFY THE INFORMATION WITHOUT NOTICE. CREATED 1/07/2021.