USER GUIDE

Bridgetek Bridging TECHNOLOGY Desk Manager





Panl



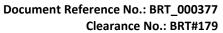
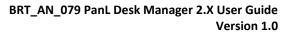




Table of Contents

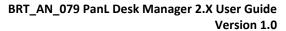
l.	Preface	7
	A. About this Guide	7
	B. Intended Audience	
II.	Safety Guidelines	
III.	Welcome to PanL Desk Manager	
	A. Overview	
	B. Features	
IV.	Installation & Configuration	
	A. Exchange 2016 / 2013 Setup	14
	1. Using Exchange Management PowerShell Command Prompt	15
	1.1 Start Exchange Management PowerShell Command Prompt	
	1.2 Create User Account	
	1.3 Create Desk / Resource Account	
	1.4 Create Distribution Group	
	1.5 Create Impersonation User/ Service Account & Grant Impersonation Rights	
	1.5.1 Create User / Service Account	
	1.6 Discovery Management	
	2. Using Exchange Admin Center Console	
	2.1 Log in to Exchange Admin Center Console	
	2.2 Create User Account	
	2.3 Create Desk / Resource Account	
	2.4 Create Distribution Group	
	2.5 Create Impersonation User/ Service Account & Grant Impersonation Rights	22
	2.5.1 Create User / Service Account	23
	2.5.2 Granting Service Account Impersonation Rights	25
	2.6 Discovery Management	
	B. Office 365 Setup	
	1. Using Windows PowerShell Command Prompt	
	1.1 Start Windows PowerShell Command Prompt	
	1.2 Create User Account	
	1.3 Create Desk / Resource Account	
	1.4 Create Distribution Group	35
	1.6 Discovery Management	
	2. Using Office 365 Admin Center Console	36
	2.1 Log in to Office 365 Admin Center Console	
	2.2 Create User Account	
	2.3 Create Desk / Resource Account	
	2.4 Create Distribution Group	
	2.5 Create Impersonation User / Service Account & Grant Impersonation Rights	42
	2.5.1 Create User / Service Account	42
	2.5.2 Granting Service Account Impersonation Rights	
	2.6 Discovery Management	
	C. PDM Server Installation Pre-requisites	
	1. System Requirements	
	2. OS (Ubuntu / RHEL / Centos / Susie)	50





Clearance No.: BRT#179

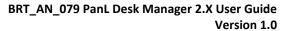
	2.1 Installing PDM on Ubuntu / RHEL Server	
	2.2 Update PDM Server Software Package	59
	2.3 Uninstall PDM Server Software Package	
	D. Domain Configuration for PDM Server Software Installation	61
	1. Configure Local Host File	61
	2. Browser (With BRT SSL)	62
V.		
	A. Logging In	
	1. Generate License	
	2. Update System Configuration	
	B. Change Password	
	C. Forgot Password	
	D. PDM Console Overview	78
	E. Dashboard	79
	F. Resource Management	83
	1. Building Management	
	1.1 Add Building	
	1.2 Edit Building	
	1.3 Delete Building	
	2. Locations Management	
	2.1 Add Location	
	2.2 Edit Location	
	2.3 View Location Map	
	2.4 Assign Desk	87
	2.5 Update Desk	
	2.6 Un-assign Desk	89
	2.7 Delete Location	
	3. Desk Management	
	3.1 Assign Desk Name & Panel to a Desk	
	3.2 Un-Assign Device	
	3.3 Assign QR Code Type	
	3.4 Export All / Filtered	
	3.5 Export	
	3.6 Update Desk Information	
	4. Device Management	
	4.1 Assign Desk to a Device	
	4.2 Un-Assign Desk	
	4.3 Configure Desk Panel Device	
	4.4 Delete Device Information	
	5. Firmware Management	
	5.1 Add / Upload Firmware Package	
	5.2 Auto Update	
	5.3 Manual Update	
	5.4 View Firmware Update Log	
	6. Amenities Management	
	6.2 Edit Amenities	
	6.3 Delete Amenities	
	7. Desk Groups	
	7. 2031 Oloups	102





Clearance No.: BRT#179

	7.1 Create Desk Group	
	7.2 Edit Desk Group	
	G. User & Role Management	
	1. User Management	
	1.1 Sync from Server	
	1.2 Edit User Information	
	2. User Groups	
	2.1 Create User Group	
	H. Feedback	
	1. Feedback Management	
	2. User Feedback	
	I. Configuration	
	1. Dashboard Settings	
	2. System Configuration	
	3. Policy Settings	116
	3.1 Update Policy Settings	
	4. Email Template	118
	4.1 Add Email Template	
	4.2 Edit / Delete Email Template	
	5. Import / Export Configuration	
	6. License	
	J. Log	121
	1. System Log	121
	2. User Log	122
	K. About	123
	L. Log Out	124
	M. Desk Viewer GUI Overview	
VI.	Getting Started with Outlook Add-In	
V 1.	A. Installing Outlook Add-In	
	B. Configure Outlook Add-In	
	C. Profile	
	D. Find a Person	
	E. Desk Booking	
	Booking Desk using Maps View	
	2. Booking Desk using List View	
	3. Other Booking Functions	
	3.1 View and Edit Booking	
	3.2 Cancel Booking	
	3.3 Claim Booking	
	3.4 Extend Booking	
	3.5 End Booking	
	F. My Bookings	
	G. Feedback	
	H. About	
VII.	PanL Desk Manager Mobile App for Android Users	
	A. Hardware / Software Requirements	
	B. Download / Installation of PDM Mobile App from Play Store	
	11 7	-





Clearance No.: BRT#179

	C. Starting the PDM Mobile App	155
	D. Log in	157
	E. Menu Overview	158
	F. Home	159
	G. My Bookings	
	H. On-board Desk Panel Device (PanL35L)*	
	I. Book a Desk	
	1. Other Booking Functions	
	1.1 Edit Booking	
	1.2 Cancel Booking	
	1.3 Claim Booking	
	1.4 Extend Booking	
	1.5 End Booking	
	J. Profile	
	K. Settings	
	L. Device Control	
	M. Feedback	
	N. About	184
	O. Log out	185
VIII	PanL Desk Manager Mobile App for iOS Users	.186
	A. Hardware / Software Requirements	
	B. Download / Installation of PDM Mobile App from App Store	186
	C. On-board Desk Panel Device (PanL35L)*	
IX.	Getting Started with PanL35L Desk Panel Device Display	
	A. PanL35L (PD35L) Device Display Overview	
	B. PanL35L Product Specifications	
	C. PanL35L (PD35L) Desk Panel Display Setup	
	D. On-Boarding	
	E. Accessing Device Control Menu	
	1. Settings	
	2. About	
	3. Factory Reset	
	4. AP Mode	
	5. Shutdown	
X	Appendix	
- 11	A. Acronyms & Abbreviations	
	B. List of Figures	
	C. List of Tables	
VI		
Λl.	Revision History	. ZUU





Version 1.0 Document Reference No.: BRT_000377

Clearance No.: BRT#179

Introduction



Clearance No.: BRT#179

I. Preface

A. About this Guide

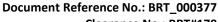
This document provides a guide to PanL Desk Manager (PDM) hardware and software installation, configuration and operating information consisting of the following –

- Exchange Server Setup, PDM Server Software Setup and Installation
- PDM Console
- Desk Viewer & Microsoft Outlook Add-In
- Mobile App (for Android / iOS users)
- Wi-Fi enabled PanL35L(PD35L) Desk Panel Device

The guide also provides configuration guidelines for supported calendars such as Microsoft Exchange 2013/2016/2019 or Office 365 to work seamlessly with PDM Server Software.

B. Intended Audience

The guide is meant to aid End Users, System Integrators, IT or Administrative Users to realize the functions and the full benefits of the product.



Clearance No.: BRT#179



Important Safety Instructions:

WARNINGS:

Bridgetek

- This symbol, , when used on the product, is intended to alert the user of the presence on uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.
- If the product is damaged and any internal components can be seen through the damaged area; unusual odours or unusual noises are detected; disconnect the device from the electric outlet and contact our support.
- Avoid attachments- Do not use tools or attachments that are not recommended by the equipment manufacturer because they may be hazardous and they may void the warranty.
- Avoid water Do not use this or other electrical equipment near water or objects filled with water. Clean the device with dry cloth only.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this equipment during lightning storms or when unused for long periods of

ATTENTION:

1 - This symbol, when used on the product, is intended to alert the user of important operating and maintenance (Servicing) instruction in the literature provided with equipment.

WARNING: To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.

General Guidelines:

Follow these sensible guidelines:

- Read instructions- Read and understand all safety and operating instructions before installing or using the equipment.
- Retain instructions- Keep the instructions for further reference.
- Follow warnings- Follow all warnings and instructions marked on the equipment or in the user information.
- Comply with codes- Install all products in accordance with international, national, and local electrical and building safety codes. Some example for reference are as follows:
 - In the United States of America, refer to ANSI/NFPA 70, US National Electrical Code (NEC).
 - In Canada. Consult the Canadian Electrical Code, Part I, CSA C22.1.
 - Elsewhere, refer to International Electro technical Commission (IEC) guideline 60364, parts 1-7.

- This equipment shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the equipment.
- Refer all servicing to qualified service personnel. Servicing is required when the equipment has been damaged in any way, such as when power supply cord or plug is damaged, liquid has been spilled, or objects have fallen into the equipment, the equipment has been exposed to rain or moisture, does not operate normally, or has been dropped.



Clearance No.: BRT#179

Grounding (Earthing):

- Grounding faceplates- For products with metal faceplates, ground the faceplates to the product ground, and tie all the products in a system to a common ground. This prevents electrostatic discharge and can prevent video ground loops.
- Do not defeat the safety purpose of the polarized or grounding -type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or the third prong is provided for user's safety. If the provided plug does not fit into the outlet, consult an electrician for replacement of the obsolete outlet.

Power and Electrical Supply:

Appropriate power supply

- Use only provided power supplies and power sources with our products. Use of unauthorized power supplies may harm the equipment, may void the warranty, and will void the regulatory compliance status.
- For power adapters with detachable DC cords, consult the Manufacturer for guidance.
- Power supplies are intended for continuous operation.
- Our power supplies are universal input voltage supplies that operate from 100-240 VAC and are intended to function at 50 to 60 Hz. The ambient temperature shall not exceed 50oC and the altitude shall not exceed 2000m. Consult the Manufacturer if the input power supply being used is not provided by us. Make sure to use the appropriate power supply for corresponding models. If use an LPS or Class2 type, and that it is marked as "LPS" or "Class 2".

Location of power supplies

- External power supplies with either plastic enclosures or metal enclosures with vents must not be located within environmental air handling spaces or a wall cavity.
- Our power supplies are intended for indoor use only.
- The power supply must not be permanently fixed to the building or similar structure.

Power Sources:

 This equipment should be operated only from the power source indicated on the product. This equipment is intended to be used with main power system with a grounded_Neutral_conductor or Line to Line. The third (grounding) pin is a safety feature, do not attempt to bypass or disable it.

WARNING for Class I Products:

Class I products must be connected only to a mains socket outlet with a protective Earthing (Grounding) connection.

 Power and IT system- Consult us before installation if the product will be connected to an IT power distribution system.

WARNING: Disconnect the equipment from the AC main before performing any service to the equipment.

- There are no user serviceable parts inside our equipment.
- Refer all servicing to qualified service personnel. To prevent the risk of shock, do not attempt to service this equipment by yourself because opening or removing covers may expose users to dangerous voltage or other hazards and may void the warranty

Ventilation, Mounting and Temperature:

- Ventilation slots and opening- If the equipment has slots or holes in the enclosure do not block any ventilation opening, as this may cause the product to malfunction. Install the device in accordance with the manufacturer's instructions
- Temperature Do not install electronic devices near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat. If possible, do not expose the product to direct sunlight. Also see "Rack mounding guidelines" below for temperature guidelines.



BRT_AN_079 PanL Desk Manager 2.X User Guide

Version 1.0

Document Reference No.: BRT_000377

Clearance No.: BRT#179

Placement Guidelines:

The following guidelines pertain to the safe installation of our device on a desk.

- Ensure that the device is not placed on the desk edges.
- Ensure that the placement is visible to the user.
- If using a glass or slippery desk, ensure that the rubber feet are in place. Use the rubber feet to stick to the bottom of the device. The rubber feet are provided as part of the package.
- The placement desk should be flat (Horizontal to ground), should not be in a slanting position.
- Please do not mount the device on a vertical wall / table.

FCC Statement:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a building installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be colocated or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the no-collocation statement.

<u>NOTE:</u> This unit was tested with shielded cables. Using shielded cables, ensure that users maintain the appropriate EMC classification for the intended environment.



Clearance No.: BRT#179

III. Welcome to PanL Desk Manager

A. Overview

The management of shared spaces particularly working desks, either in traditional corporate offices or the fast growing co-space providers is increasingly important as real estate costs have climbed steadily over the years especially in land scarce city-states. A 1:1 desk to head ratio may no longer be cost effective or a good use of shared space when desks are under-utilized. Other use case applications such as libraries, cyber cafes or community centres also face similar challenges in managing desk bookings. **PanL Desk Manager (PDM)** addresses the problem by providing a complete solution ecosystem as illustrated in Figure 1 – PanL Desk Manager Ecosystem, enabling organizations to automatically manage desk bookings and increase the number of users per desk without compromising user experience. By continuous re-conditioning of the workspace based on statistical data collected, substantial cost and space savings can be realized.

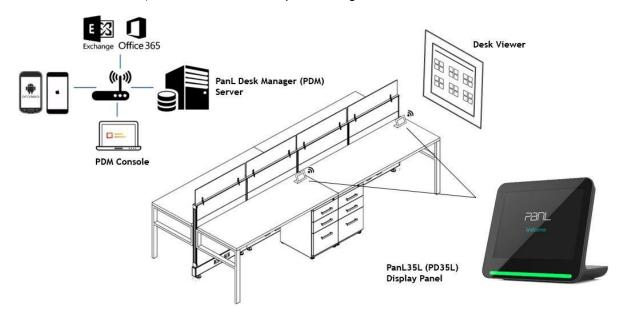


Figure 1 - PanL Desk Manager Ecosystem

PDM Server Software installed on on-premise server can be configured via a simple web console interface (PDM Console) to connect to supported Microsoft Exchange or Office 365 calendars. The PDM console also allows system administrators to assign desk layouts across local or multi-site locations, setup PanL35L display panels remotely and configure a variety of desk booking policies to suit administrator's preference such as maximum desk booking hours per day or desk claim time limit to ensure desks are in good use. A dashboard which displays booking statistical data provides valuable insights to management to understand and manage user behaviour to further improve desks utilization.

Users can book desks via Outlook Add-In, mobile devices and right from the desk panels. On spot desk booking through the panel is as easy as scanning the QR code through the mobile app and setting the desired booking time slot. The panel comes with a bright LED indicator to provide ataglance desk availability status from a distance. One or more desk panels are added to the network as clients through on-boarding (see Getting started with PanL PD35L Device). PDM enables the panels, mobile apps and the calendars to integrate seamlessly, synchronizing all scheduling data across all platforms on the same network. All communications in between are encrypted to ensure data security. The **Desk Viewer** interface provides an overall view of desks availability across different locations of a building spanning across different locations. This can be displayed on any network enabled screen placed at public access areas.



Clearance No.: BRT#179

B. Features

The following are some key features offered by PanL Desk Manager (PDM) -

- ❖ Make on spot desk reservations right from the desk panel (QR Code) or advance booking through outlook or mobile app. Integrate seamlessly with supported calendars such as Microsoft Exchange and Office 365
- Book by desk or time options. Easy access to all booking information and status through My Booking feature
- PanL Desk Panel Display availability status light indicators allow users to locate a vacant space from afar - LED color code: Green (Available), Yellow (Pending Claim), Red (In-Progress)
- Claim and automatic release feature reduces no show time ensuring unused desks are available for the next user. Frequent ghost booking offenders can be identified
- One glance desks occupancy status and navigation through Desk Viewer. Search building/location/desks function enables users to book neighbouring desk to work on the same project
- Outlook Add-In and Mobile App feature enable users or admin to book and assign desks on behalf of other users
- Number of devices and users can be scaled accordingly and settings can be centrally managed and synchronized across multi-site locations
- Booking statistical data dashboard provides insights on desk/user utilization and booking behaviours to better optimize user experience and desk to head ratio
- ❖ A single admin console (PDM Console) interface provides a one stop management of resource assignment, desk booking policies, display panel and calendar configurations etc.
- * Remote desk panel firmware OTA updates, activation, brightness control through Wi-Fi
- ❖ Easy desk panel power up with 5V micro-USB cable
- Secure communications between the clients and server over https. Database encryption over user account credentials and passcodes
- Customizable desk notification email template
- User feedback through mobile app/Outlook Add-In/Desk Viewer
- Static / Dynamic QR Code







Installation &

Configuration (Exchange Server Setup)



Clearance No.: BRT#179

IV. Installation & Configuration

A. Exchange 2016 / 2013 Setup

Account	Account	Number of	Description
Reference	Туре	Accounts	
User Account	User Mail	1	This account will be used by the normal end users to
	box		perform desk booking related activities.
Desk Account	Desk	X	This account's email addresses will be used –
	Mailbox		
			To book the desks.
			The desk account has to be granted "Send on
			behalf" and "Full access" permissions (by the
			impersonation user) to its belonging Desk
			accounts in order to synchronize booking data.
			This account will be part of the distribution
Distribution	Group	1	group. This group of desks are only allowed to access the
Group	(Room	1	following PDM components –
Group	List)		Tollowing T Divi components
	Listy		PDM Console
			Outlook Add Ins
			PanL35L On spot booking
Impersonation	User	1	This user will be able to access multiple mailboxes
User / Service			and act as the mailbox owner. Impersonation is the
Account			best choice while dealing with multiple mailboxes
			because one can easily grant service account access
			to every mailbox in a database. This account will be
			used -
			To communicate between PDM and Exchange
			Server.
			All the PDM server / Desk Booking related emails will be cont by this user.
			will be sent by this user Upon installation of PDM server, this user
			account details must be added in the
			"config.json" file and uploaded to PDM server.
			coming good the and apposage to 1 DT1 server.
			Since large a number of emails are processed
			through this account, a dedicated account for this
			purpose is recommended.

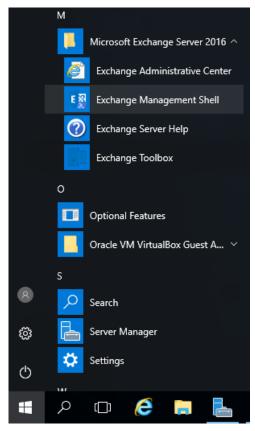


Clearance No.: BRT#179

1. Using Exchange Management PowerShell Command Prompt

1.1 Start Exchange Management PowerShell Command Prompt

a. From the exchange server, click Start \rightarrow Microsoft Exchange Server \rightarrow Exchange Management Shell.



b. The **Exchange Management Shell** is opened.





Clearance No.: BRT#179

1.2 Create User Account

c. Create user account using the following command -

```
New-Mailbox -Name "User1" -DisplayName "User1" -UserPrincipalName "user1@bridgetek.com" -OrganizationalUnit Users -Password (ConvertTo-SecureString "P@ssw0rd" -AsPlainText -force)
```

The user account will be created.

1.3 Create Desk / Resource Account

d. Create resource account using the following command -

```
New-Mailbox -Name "Desk1" -DisplayName "Desk1" -Room
```

1.4 Create Distribution Group

The distribution group is required to identify the resources (for example – Desk) in PDM. The RoomList parameter is mandatory.

e. Create a new room list named "Bridgetek Desks" -

New-DistributionGroup -Name "Bridgetek Desks" -RoomList



Clearance No.: BRT#179

f. Add a resource account (desk1@bridgetek.com) to an existing desk list (Bridgetek desks) -

Add-DistributionGroupMember -Identity "Bridgetek Desks" -Member desk1@bridgetek.com

g. Display the list of desk added to a particular distribution group -

Get-DistributionGroupMember -Identity "Bridgetek Desks"

1.5 Create Impersonation User/ Service Account & Grant Impersonation Rights

1.5.1 Create User / Service Account

h. Create Service Account using the following command -

New-Mailbox -Name "service-account" -DisplayName "service-account" -UserPrincipalName "service-account@bridgetek.com" -OrganizationalUnit Users -Password (ConvertTo-SecureString "P@ssw0rd" -AsPlainText -force)



Clearance No.: BRT#179

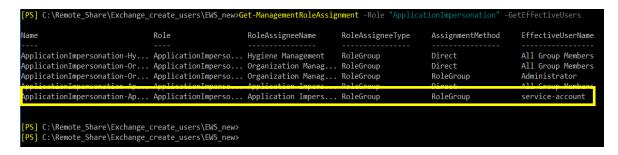
1.5.2 Granting Service Account Impersonation Rights

 Create Admin Role Group and Grant Service Account Impersonation Rights using the following command –

New-RoleGroup -Name "Application Impersonation Role" -Roles "ApplicationImpersonation" -Members service-account@bridgetek.com

j. To view the application impersonation data use the following command -

 $\begin{tabular}{ll} {\tt Get-ManagementRoleAssignment-Role} & {\tt ``ApplicationImpersonation''-GetEffectiveUsers} \end{tabular}$



1.6 Discovery Management

k. Using the following command, add the service account into Discovery Management Role.

 $\begin{tabular}{ll} Add-RoleGroupMember - Identity "Discovery Management" - Member & & & & & & \\ account@bridgetek.com & & & & & \\ \end{tabular}$

- [PS] C:\Remote_Share\Exchange_create_users\EWS_new>
 [PS] C:\Remote_Share\Exchange_create_users\EWS_new>Add-RoleGroupMember -Identity "Discovery Management" -Member service-account@bridgetek.com
 [PS] C:\Remote_Share\Exchange_create_users\EWS_new>
 [PS] C:\Remote_Share\Exchange_create_users\EWS_new>
- I. Using the following command, view the list of members in the Discovery Management Role -

Get-RoleGroupMember -Identity "Discovery Management"

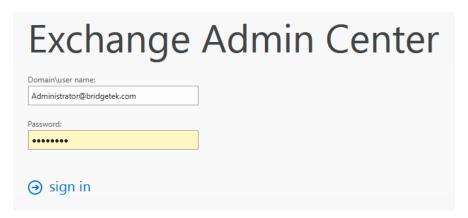


Clearance No.: BRT#179

2. Using Exchange Admin Center Console

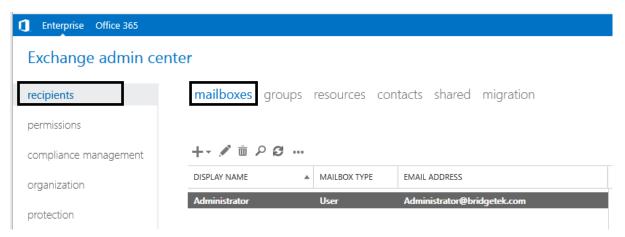
2.1 Log in to Exchange Admin Center Console

a. Go to https://<exchange servername>/ecp and log in with your Exchange Admin account.

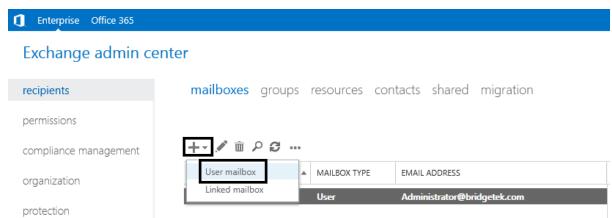


2.2 Create User Account

b. Go to "Recipients" \rightarrow "Mailboxes".



c. Click "+" and select "User mailbox".

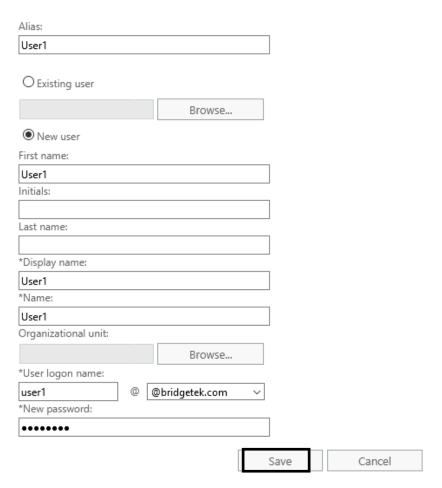




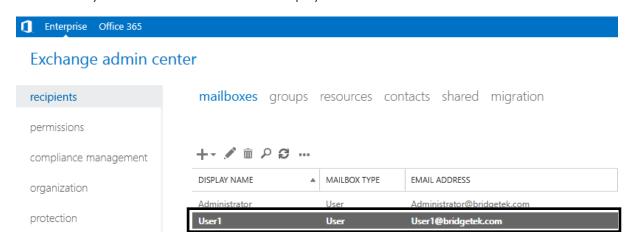
Clearance No.: BRT#179

d. Enter the user account details and click [Save].

new user mailbox



e. The newly created User account will be displayed under the list of mailboxes.

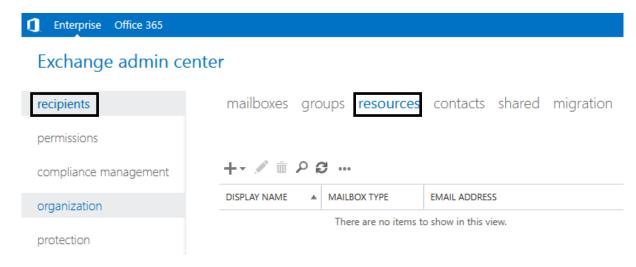




Clearance No.: BRT#179

2.3 Create Desk / Resource Account

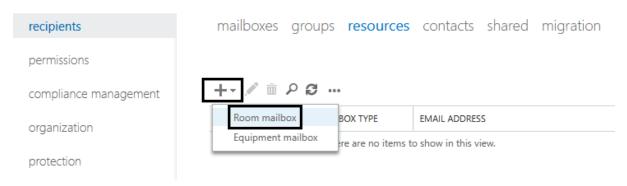
f. In the Exchange admin centre go to "Recipients" \rightarrow "Resources".



g. Click "+" and select "Room mailbox".



Exchange admin center

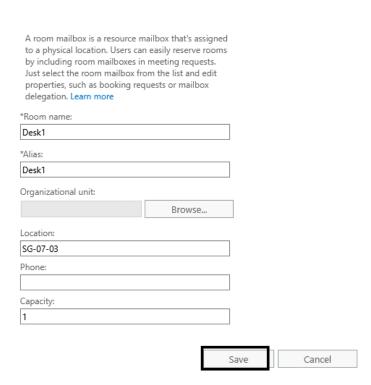




Clearance No.: BRT#179

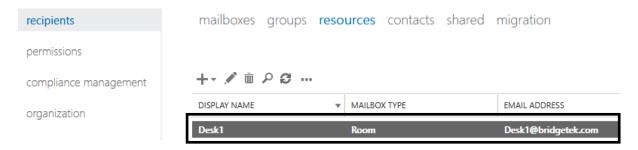
h. Enter the Desk account details and click [Save].

new room mailbox



i. The newly created desk account will be displayed under the list of resources.

Exchange admin center



2.4 Create Distribution Group

The distribution group RoomList can be created **only** using the Exchange PowerShell.

Refer to the steps given under the topic <u>A. Exchange 2016/2013 Setup \rightarrow 1. Using Exchange Management PowerShell Command Prompt \rightarrow 1.3 Create Distribution Group for details.</u>

2.5 Create Impersonation User/ Service Account & Grant Impersonation Rights

This account will be used for authentication and carrying out requests between the PDM software and Exchange 2019/2016/2013 via EWS (Exchange Web Services).

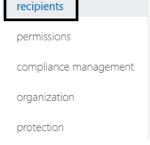


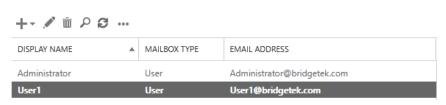
Clearance No.: BRT#179

2.5.1 Create User / Service Account

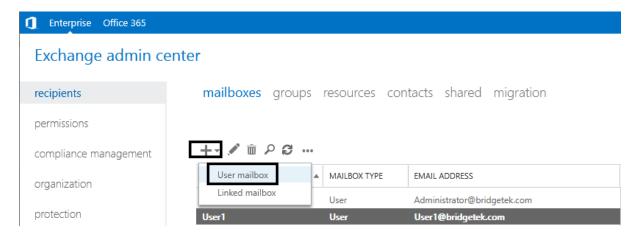
j. Go to "Recipients" \rightarrow "Mailboxes".







k. Click + and select **User mailbox**.

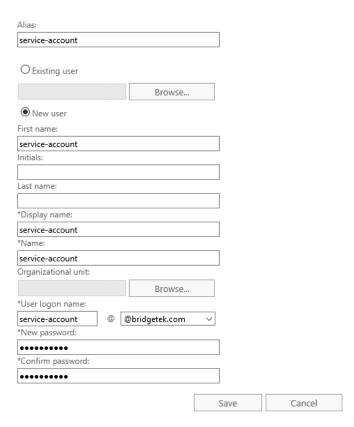




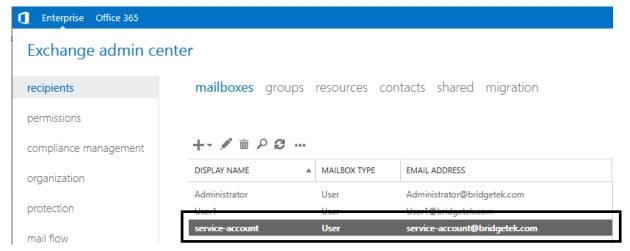
Clearance No.: BRT#179

I. Enter the Service Account details and click [Save].

new user mailbox



The Service account will appear in the list of mailboxes.



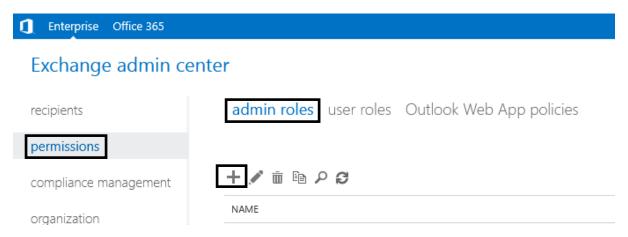


Clearance No.: BRT#179

2.5.2 Granting Service Account Impersonation Rights

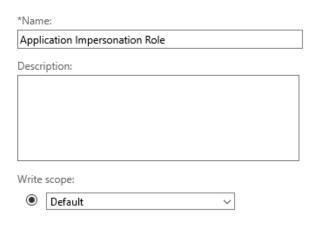
The following steps will guide to grant the service account with impersonation permission for **all accounts** -

m. In the Exchange admin centre, navigate to "permissions" \rightarrow "admin roles". Click "+".

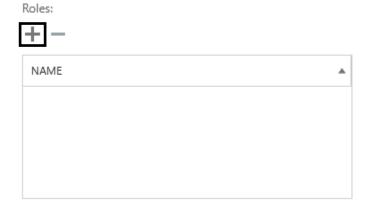


n. Input the role group related details. Set the "Write scope" field as **Default** (for all accounts).

new role group



o. Click "+" under "Roles".

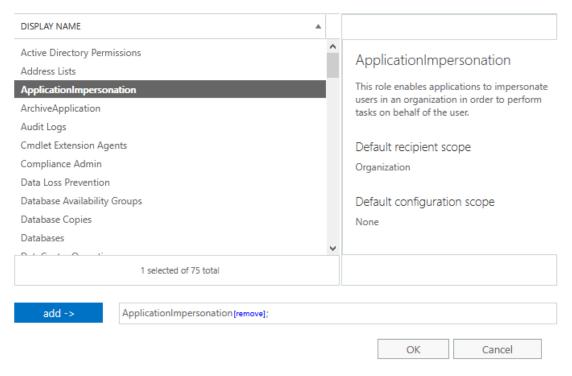




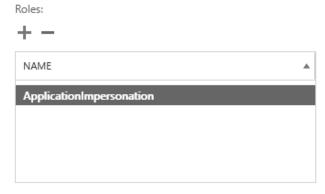




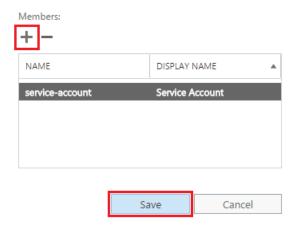
p. Add the admin role "ApplicationImpersonation". Click [OK].



The newly added admin role will be displayed under "Roles".



q. Similarly, click "+" under "Members" and add the service account and click [OK]. Service account will be added and displayed. Click [Save].





BRT_AN_079 PanL Desk Manager 2.X User Guide

Version 1.0

Document Reference No.: BRT_000377

Clearance No.: BRT#179

The newly added role is displayed under the "admin roles".

admin roles user roles Outlook Web App policies



NAME

Application Impersonation Role

Compliance Management

Delegated Setup

Discovery Management

Help Desk

Hygiene Management

Organization Management

Public Folder Management

Recipient Management

Records Management Security Administrator

Security Reader

Server Management

UM Management

View-Only Organization Management

Application Impersonation Role

Assigned Roles

ApplicationImpersonation

Members

service-account

Managed By

DMBRTCHIPDEMO.LOCAL/Microsoft Exchange Security Groups/Organization Management

DMBRTCHIPDEMO.LOCAL/Users/Administrator

Write scope

Default

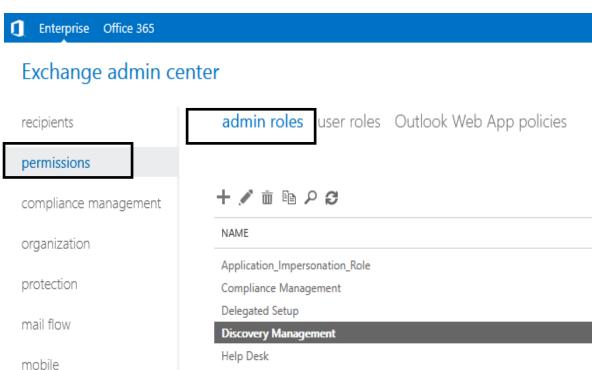


Clearance No.: BRT#179

2.6 Discovery Management

Members of this management role group can perform mailbox search in the Exchange organization for data that meets specific criteria.

r. In the Exchange admin centre, navigate to **"permissions"** → **"admin roles"**. Click and select **"Discovery Management"**.



Hygiene Management

Organization Management

Public Folder Management

Recipient Management

Records Management

Security Administrator

Security Reader

Server Management

UM Management

View-Only Organization Management

public folders

servers

hybrid

unified messaging

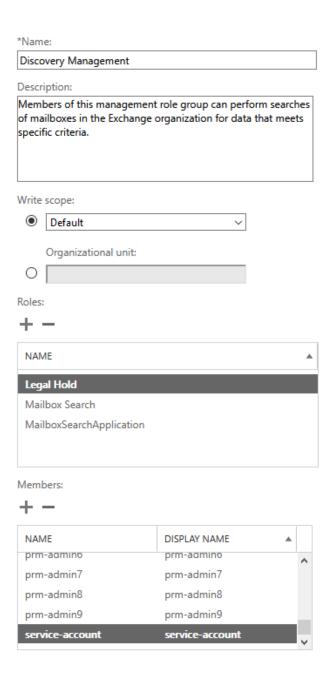


Version 1.0
Document Reference No.: BRT_000377

Clearance No.: BRT#179

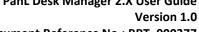
s. In the "Discovery Management" interface, enter the Name, Under Rules, select "Legal Hold"; select the "Service Account" under Members.

Discovery Management



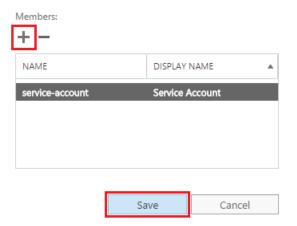






Clearance No.: BRT#179

t. Similarly, click "+" under "Members" and add the service account and click [OK]. Service account will be added and displayed. Click [Save].



Bridgetek





Clearance No.: BRT#179

Installation &

Configuration (Office 365 Server Setup)



Clearance No.: BRT#179

B. Office 365 Setup

Account	Account	Number of	Description
Reference	Туре	Accounts	
User Account	User Mail box	1	This account will be used by the normal end users to perform booking related activities.
Desk Account	Desk Mailbox	Х	This account's email addresses will be used –
			 To book the desks. The desk account has to be granted "Send on behalf" and "Full access" permissions (by the impersonation user) to its belonging Desk accounts in order to synchronize meeting data. This account will be part of the distribution group.
Distribution Group	Group (Room List)	1	This group of desks are only allowed to access the following PDM components – • PDM Console
			Outlook Add InsPanL35L On Spot booking
Impersonation User / Service Account	User	1	This user will be able to access multiple mailboxes and act as the mailbox owner. Impersonation is the best choice while dealing with multiple mailboxes because one can easily grant service account access to every mailbox in a database. This account will be used –
			 To communicate between PDM and Office 365. All the PDM server / Desk Booking related emails will be sent by this user Upon installation of PDM server, this user account details must be added in the "config.json" file and uploaded to PDM server.
			Since a large number of emails are processed through this account, a dedicated account for this purpose is recommended.



Clearance No.: BRT#179

1. Using Windows PowerShell Command Prompt

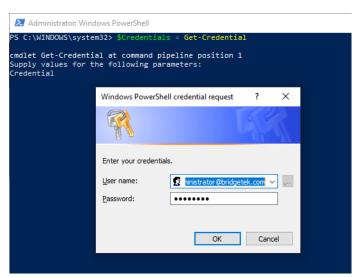
1.1 Start Windows PowerShell Command Prompt

 a. Start the PowerShell on the workstation. Click Start → Windows PowerShell.



b. In the console, type the following command to get the credentials of Office 365.

\$Credentials = Get-Credential



c. In the resulting window, provide administrative credentials. After logging in, enter the following commands –

\$ Session = New-PSSession -ConfigurationName Microsoft.Exchange - ConnectionUri https://outlook.office365.com/powershell-liveid/ - Credential \$UserCredential -Authentication Basic -AllowRedirection



Version 1.0

Document Reference No.: BRT_000377

Clearance No.: BRT#179

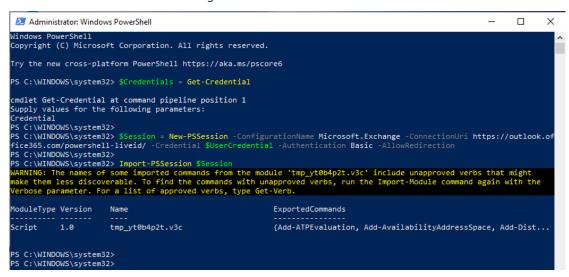
d. Enter the following command to connect to the Office 365 and import all necessary administration cmdlets.

Import-PSSession \$Session

If the above import command fails, then use the following command -

Set-ExecutionPolicy RemoteSigned

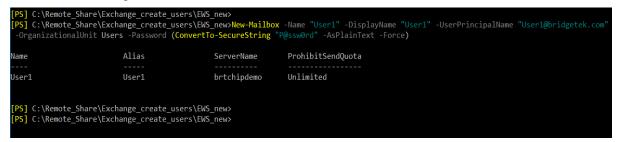
Now the Office 365 can be managed via PowerShell.



1.2 Create User Account

a. Create user account using the following command -

New-Mailbox -Name "User1" -DisplayName "User1" -UserPrincipalName "user1@bridgetek.com" -OrganizationalUnit Users -Password (ConvertTo-SecureString "P@ssw0rd" -AsPlainText -force)



The user account will be created.



BRT_AN_079 PanL Desk Manager 2.X User Guide

Version 1.0

Document Reference No.: BRT_000377

Clearance No.: BRT#179

1.3 Create Desk / Resource Account

Refer to the steps given under the topic A. Exchange 2016/2013 Setup \rightarrow 1. Using Exchange Management PowerShell Command Prompt \rightarrow 1.3 Create Desk/Resource Account for details.

1.4 Create Distribution Group

Refer to the steps given under the topic <u>A. Exchange 2016/2013 Setup \rightarrow 1. Using Exchange Management PowerShell Command Prompt \rightarrow 1.3 Create Distribution Group for details.</u>

1.5 Create Impersonation User / Service Account & Grant Impersonation Rights

Refer to the steps given under the topic <u>A. Exchange 2016/2013 Setup \rightarrow 1. Using Exchange Management PowerShell Command Prompt \rightarrow 1.3 Create Impersonation User / Service Account & Grant Impersonation Rights for details.</u>

1.6 Discovery Management

Refer to the steps given under the topic <u>A. Exchange 2016/2013 Setup \rightarrow 1. Using Exchange Management PowerShell Command Prompt \rightarrow 1.5 Discovery Management for details.</u>

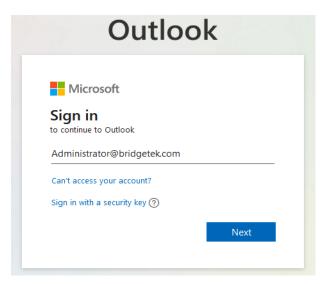


Clearance No.: BRT#179

2. Using Office 365 Admin Center Console

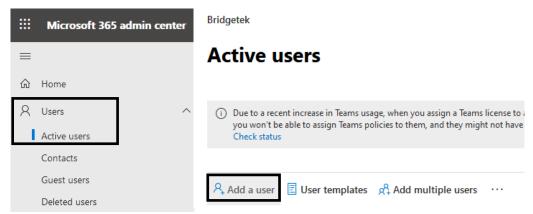
2.1 Log in to Office 365 Admin Center Console

a. Go to the Office 365 Admin center and log in with Office 365 admin account.

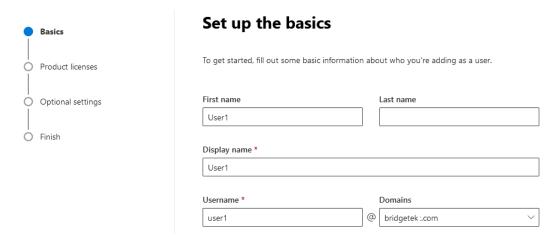


2.2 Create User Account

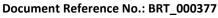
b. In the Microsoft 365 admin centre, click "Users → Active Users → Add a user".



c. Enter the basic information pertaining to User account. Click [Next].



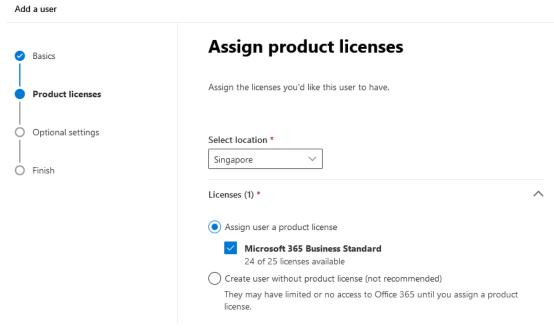




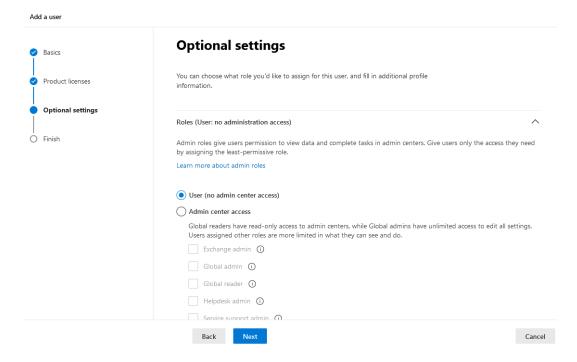
Clearance No.: BRT#179

d. Assign the "product licenses". Click [Next].

Bridgetek



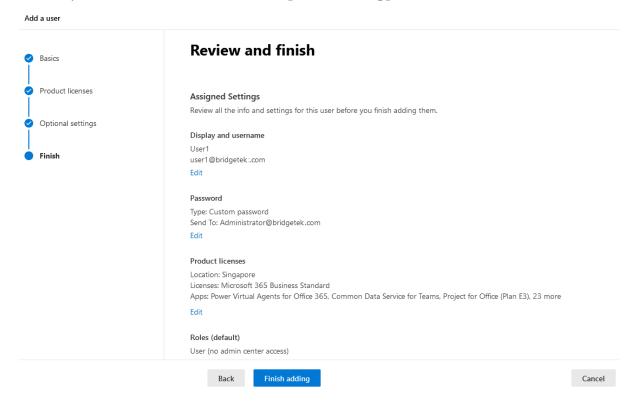
e. Go through the **Optional settings** and select as required. Click **[Next]**.





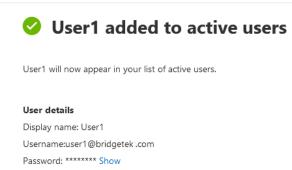
Clearance No.: BRT#179

f. Verify the user account details and click [Finish Adding].



Add a user





Licenses bought

None

Licenses assigned

Microsoft 365 Business Standard

Sending to: Administrator@bridgetek.com

Save these user settings as a template?

User templates allow you to quickly add similar users in the future by saving a set of shared settings such as domain, password, product licenses, and roles.

Review settings for this user template

Close



BRT_AN_079 PanL Desk Manager 2.X User Guide

Version 1.0

Document Reference No.: BRT_000377

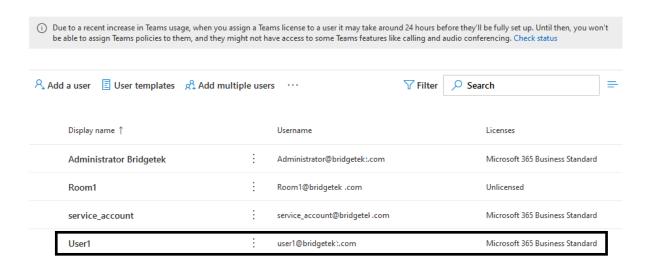
Clearance No.: BRT#179

The user account details are added to active users list.

Bridgetek

♪ Dark mode

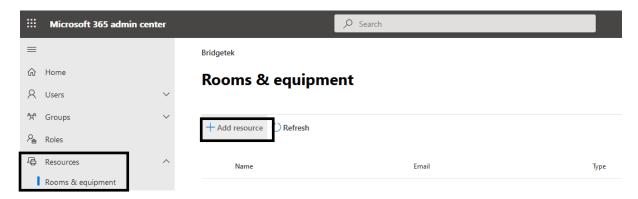
Active users





Clearance No.: BRT#179

2.3 Create Desk / Resource Account



g. In the **Add resource** interface, enter the following resource related information – *Resource Type, Resource Name, Email address, Capacity & Phone number*. Click **[Save]**.

Add resource

Save

Create a mailbox for things like a conference room, company car, or equipment that everyone needs to use, so that those resources are reservable. Learn more about resource types Resource type Room Name * Desk1 The resource name appears in the address book, and in the To and From lines in meeting invitations and responses. Email * Domains Desk1 bridgetek.com The email address is used to send meeting invitations to the resource. Capacity The number of people who can fit in the room or use the equipment at the same time. Location SG-07-03



Clearance No.: BRT#179

h. A new resource (desk) account is added and displayed.



You've created a new mailbox for your Room and can now use the email address to book the resource.

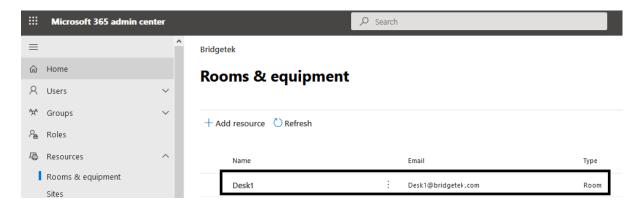
Default booking options have been applied, such as allowing repeating meetings and automatically accepting meeting invites. You can change these at any time.

Next Steps

Edit booking options Add another resource

Learn more

Use the Scheduling Assistant in Outlook to add rooms to meetings Working with rooms and equipment



2.4 Create Distribution Group

The distribution group RoomList can be created only using the Exchange PowerShell.

Refer to the steps given under the topic <u>A. Exchange 2019/2016/2013 Setup \rightarrow 1. Using Exchange Management PowerShell Command Prompt \rightarrow 1.3 Create Distribution Group for details.</u>

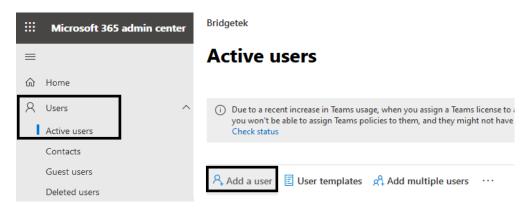


Clearance No.: BRT#179

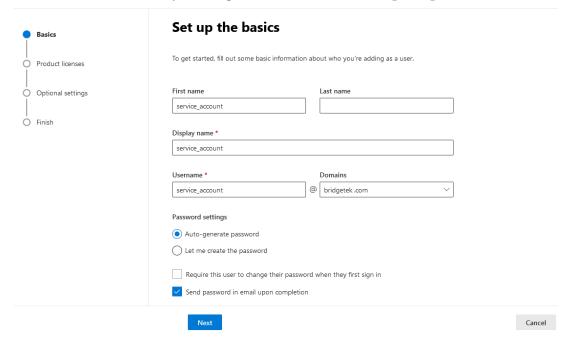
2.5 Create Impersonation User / Service Account & Grant Impersonation Rights

2.5.1 Create User / Service Account

In the Microsoft 365 admin centre, click "Users → Active Users → Add a user".



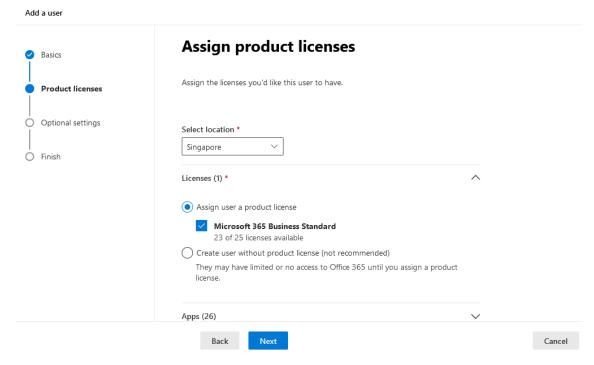
j. Enter the basic information pertaining to Service Account. Click [Next].



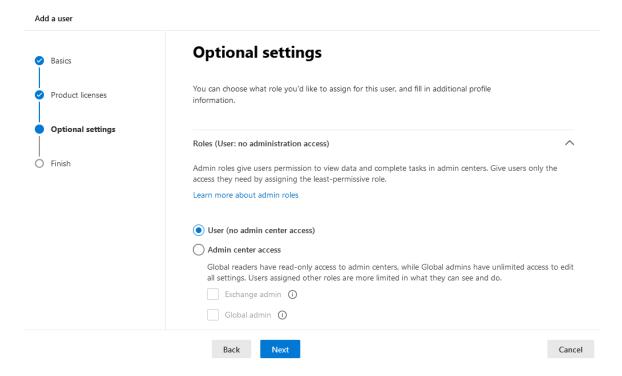


Clearance No.: BRT#179

k. Assign the "product licenses". Click [Next].



I. Go through the **Optional settings** and select as required. Click **[Next]**.

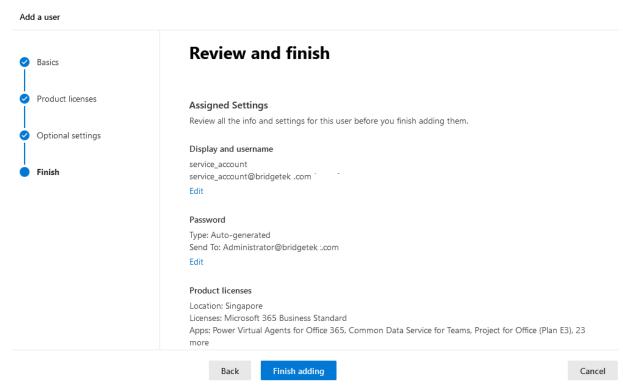


Version 1.0

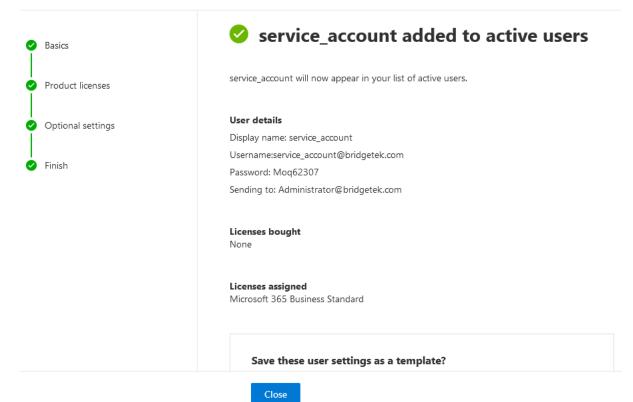
Document Reference No.: BRT_000377

Clearance No.: BRT#179

m. Verify the details and click [Finish Adding].



Add a user





BRT_AN_079 PanL Desk Manager 2.X User Guide

Version 1.0

Document Reference No.: BRT_000377

Clearance No.: BRT#179

Microsoft 365 Business Standard

The service account details are added to active users list.

Dark mode Bridgetek Active users ① Due to a recent increase in Teams usage, when you assign a Teams license to a user it may take around 24 hours before they'll be fully set up. Until then, you won't be able to assign Teams policies to them, and they might not have access to some Teams features like calling and audio conferencing. Check status Add a user User templates Add multiple users ... **T** Filter Search = Display name ↑ Licenses Username Administrator Bridgetek Administrator@bridgetek .com Microsoft 365 Business Standard Unlicensed Room1 Room1@bridgetek :.com

2.5.2 Granting Service Account Impersonation Rights

service_account

To grant the service account with impersonation permission for all accounts, refer to the steps given under section Granting Service Account Impersonation Rights in Exchange.

service_account@bridgetek .com

Clearance No.: BRT#179

2.6 Discovery Management

n. In the Office 365 admin centre, navigate to "permissions" → "admin roles". Click and select "Discovery Management".



Exchange admin center

permissions

recipients

compliance management

organization

protection

mail flow

mobile

public folders

unified messaging

servers

hybrid

admin roles user roles Outlook Web App policies





NAME

Application_Impersonation_Role

Compliance Management

Delegated Setup

Discovery Management

Help Desk

Hygiene Management

Organization Management

Public Folder Management

Recipient Management

Records Management

Security Administrator

Security Reader

Server Management

UM Management

View-Only Organization Management

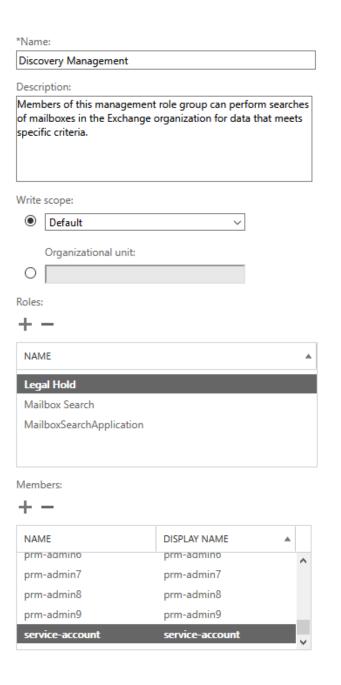


Version 1.0
Document Reference No.: BRT_000377

Clearance No.: BRT#179

o. In the "Discovery Management" interface, enter the Name, Under Rules, select "Legal Hold"; select the "Service Account" under Members.

Discovery Management



Save Cancel



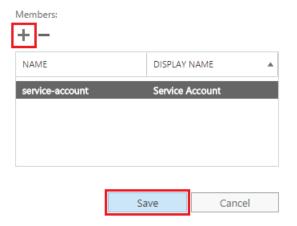
BRT_AN_079 PanL Desk Manager 2.X User Guide

Version 1.0

Document Reference No.: BRT_000377

Clearance No.: BRT#179

p. Similarly, click "+" under "Members" and add the service account and click [OK]. Service account will be added and displayed. Click [Save].







Clearance No.: BRT#179



Installation &

Configuration (PDM Server)

Clearance No.: BRT#179

C. PDM Server Installation Pre-requisites

1. System Requirements

Hardware / Software	Specifications		
Server Operating System	Ubuntu LTS 16.04+ / CentOS / SUSIE / RHEL		
Exchange Server	Microsoft Exchange 2013/2016/2019 & Office 365		
Database Software	Mongo 4.2.0		
Console Web Browser	Mozilla Firefox v69+/Chrome v65+/Safari		
Client Software	Outlook Add-In 2010/2013/2016/Outlook App Ensure that any of the above outlook versions are installed.		
Minimum Server Hardware Requirements	Processor –Intel Core 2 Duo		
	Hard disk - 50GB		
	RAM – 4GB RAM		
Calendar/Application Ports	Exchange Server	Port 443	Used for EWS connection
		Port 587	Used for SSMTP
	PDM Server	Port 80 / Port 8881 / Port 9881	Used for PDM Console
		Port 3000 / Port 4430	Used for API
		Port 3002	Used for Socket Notification
		Port 5353	Used for mDNS
		Port 65533	Used for PanL35L Device
	Client (Outlook Add- Ins)	Port 5353	Used for mDNS
	PanL35L	Port 65533	Used for PDM API
	Mobile Client	Port 5353	Used for mDNS

2. OS (Ubuntu / RHEL / Centos / Susie)

2.1 Installing PDM on Ubuntu / RHEL Server

System Requirements

- <u>Ubuntu:</u> A server running a 64-bit Debian based distribution (Ubuntu Server 16.04 20.04 LTS recommended)
- RHEL: A server running a 64-bit RHEL Server 8.2 (Ootpa)
- A static IPv4 address (pointing to PDM Server IP).
- A user account with sudo full permissions
- Access to the internet during installation to download dependencies. (optional)

Pre-Installation Procedure

This section provides the steps involved in installation and configuration of the PDM Server Software and its components. The screenshot and file names are for illustration purposes only.

a. Install net tools using the command -

sudo apt install net-tools

b. Copy the PDM installation package zip file provided (for example – *PDM_Package_3.1.6*) to the PDM Server PC (for example: /home/administrator/PDM)



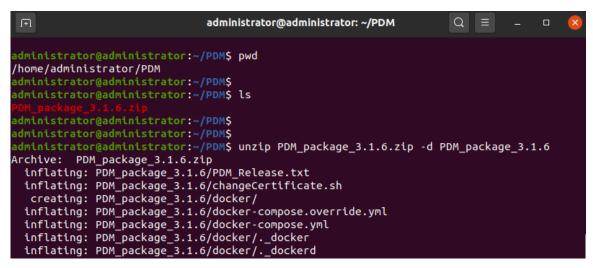
Version 1.0

Document Reference No.: BRT_000377

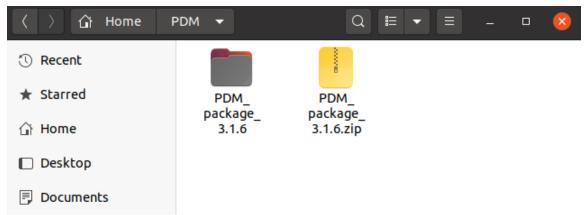
Clearance No.: BRT#179

c. Unzip or extract the installation files using the following command -

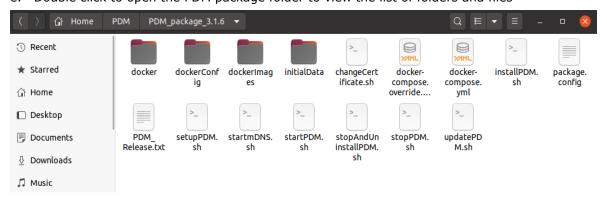
unzip PDM package 3.1.6.zip -d PDM package 3.1.6



d. Upon extracting the package file, the PDM package folder is displayed -



e. Double click to open the PDM package folder to view the list of folders and files -



Document Reference No.: BRT_000377
Clearance No.: BRT#179

f. Open a terminal or command prompt from the package directory (for example: PDM Package 3.1.6)

Note: If the PDM installation is performed for the first time, then the **Docker** will be automatically installed in the server.

g. If installing PDM Server Software for the first time, please edit the configuration files of the various services below before installation-

Multi Cast DNS (mDNS) service

a. Edit the MDNS related parameters in the "Config.json" file which is located under the path – "PDM_Package_x.x.x/initialData/config/mdns/config.json". Upon editing the parameters, save the configuration.

```
"ip": "10.55.0.20" 
$\Replace this IP address with the PDM server IP address

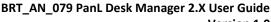
"pdmServerAddress" : "<organization's domain name>"

Please do not change any other parameters except for "ip" and "pdmServerAddress"
```

Nginx service

b. If there is a need to change the SSL certificate from the default Bridgetek SSL certificate, first copy the new certificates to path- "PDM_Package_x.x.x/initialData/config/nginx/conf.d/ssl" folder" and change the below highlighted parameters in the "default.config" file as per the new certificate file name and the domain/log credentials as per organization's domain/log credentials. By default, Bridgetek SSL certificate is used as shown below:

```
ssl certificate /etc/nginx/conf.d/ssl/PDM nginx cert.pem;
  ssl certificate key /etc/nginx/conf.d/ssl/PDM nginx key.pem;
  ssl protocols
                     TLSv1.2;
  ssl ciphers
                     HIGH: !aNULL: !MD5;
  upstream backend {
   server pdm:3000 max fails=20 fail timeout=600s;
    keepalive 128;
  server { # simple reverse-proxy
   listen 4430 ssl;
   listen
                9881 ssl default server;
   server_name app.<organization's domain name>;
access_log off;
   client max body size 100m;
    # pass requests for dynamic content to rails/turbogears/zope,
et al
   location / {
     proxy pass
                    https://wmc:8881;
  }
  server { # simple reverse-proxy
   listen 56368;
```



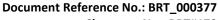


Document Reference No.: BRT_000377
Clearance No.: BRT#179



```
server_name app.pes.local;
   access_log
               off;
   client max body size 100m;
    # pass requests for dynamic content to rails/turbogears/zope,
et al
   location / {
                    http://pes:56368;
     proxy pass
  }
  server { # simple reverse-proxy
   listen 4430 ssl;
   listen
                3002 ssl default server;
   server_name socket.< organization's domain name>;
   access log off;
   client_max_body_size 100m;
    # pass requests for dynamic content to rails/turbogears/zope,
et al
   location / {
     proxy pass
                     https://pdm:3002;
     proxy http version 1.1;
     proxy set header Upgrade $http upgrade;
     proxy set header Connection "upgrade";
     proxy set header Host $host;
    }
  }
  server { # simple reverse-proxy
   listen 4430 ssl;
   listen
                3000 ssl default server;
   server_name api.<organization's domain name>;
   access_log off;
              logs/pdmError.log error;
   error log
   client max body size 100m;
   underscores in headers on;
    # pass requests for dynamic content to rails/turbogears/zope,
et al
   location / {
                     https://pdm:3000;
     proxy pass
     proxy_redirect
                        off;
     proxy set header Host
                                   $host;
     proxy_set_header X-Real-IP $remote_addr;
proxy_set_header X-Forwarded-For
$proxy add x forwarded for;
      client body buffer size
      client max body size
                                 100M;
     proxy connect timeout
                                  1200;
     proxy_send_timeout
                                  1200;
     proxy_read timeout
                                  1200;
     send_timeout
                                  1200;
   }
  }
```







Clearance No.: BRT#179

```
server { # simple reverse-proxy
       listen 80;
       server_name app.<organization's domain name>;
       access_log logs/app.<organization's domain name>.access.log
   main;
       # pass requests for dynamic content to rails/turbogears/zope,
   et al
       location / {
                       https://wmc:8881;
         proxy_pass
       }
     }
     server { # simple reverse-proxy
       listen 80;
       server name api.<organization's domain name>;
     underscores in headers on;
       client max body size 100m;
       client body buffer size
                               128k;
       access_log off;
       error log /dev/null crit;
       # pass requests for dynamic content to rails/turbogears/zope,
   et al
       location / {
         proxy set header X-Real-IP $remote addr;
         proxy set header Host $http host;
         proxy http version 1.1;
         proxy set header Connection "";
         proxy_connect_timeout 10;
         proxy send timeout
                                   10;
         proxy read timeout
                                   10;
         send timeout
                                   10;
         proxy buffer size
                                  4k;
         proxy_buffers
                                  4 32k;
         proxy_busy_buffers size 64k;
         proxy temp file write size 64k;
         proxy_pass_request_headers on;
         proxy_pass https://backend;
       }
}
```

Upon editing the configuration file, save the changes.



Clearance No.: BRT#179

PDM Console (WMC Service)

c. Edit the "environment.json" config file which is located under the path – "PDM_Package_2.0.7/initialData/config/wmc/environment.json" as given below. Upon editing, save the changes to the configuration.

```
{
   "production": true,
   "settings": {
      "endpoint": "https://api.<organization's domain name>/api/"
   }
}
```

Installation of PDM Server Software

The steps to install the PDM Server Software are given below. The screenshots used here are for illustration purpose only.

a. Open the command prompt and enter the following command to provide the execution permission for the script files –

```
$ sudo chmod 777 *.sh
```

b. The setupPDM.sh should be run only once to install the docker. Here is the command to install docker -

```
$ sudo ./setupPDM.sh
```

```
administrator@administrator: ~/PDM/PDM_package_3.1.6 Q ≡ - □ 

administrator@administrator: ~/PDM/PDM_package_3.1.6 sudo ./setupPDM.sh
sudo: docker: command not found
[Info] Extracting the Docker file
docker/
docker/ctr
docker/ctr
docker/cunc
docker/dockerd
docker/docker
docker/docker
docker/containerd
docker/containerd
docker/containerd-shim
docker/docker-proxy
[Info] Installing Docker
[Info] Installing Docker
[Info] Installing Docker config files and enabling Docker service
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /etc/systemd/system/docker.service.

■
```

c. Upon running PDM setup, the PDM Server PC will automatically restart. Verify the docker version being installed using the following command –

```
$ sudo docker -v
```

```
administrator@administrator: ~/PDM/PDM_package_3.1.6 Q = administrator@administrator: ~/PDM/PDM_package_3.1.6$ sudo docker -v Docker version 19.03.1, build 74b1e89e8a administrator@administrator: ~/PDM/PDM_package_3.1.6$ administrator@administrator: ~/PDM/PDM_package_3.1.6$
```



Clearance No.: BRT#179

d. The following command will install the necessary PDM Server images into docker.

```
$ sudo ./installPDM.sh
```

A confirmation message to overwrite the existing version (if any) is displayed. Enter **Yes** to proceed or **No** to discard the installation. If **Yes** is selected, system will remove all the old docker images (if any) and add the new docker images.

If prompted, enter the PDM Server IP Address manually -

Upon entering the IP address, the installation will start and progress.

```
administrator@administrator: ~/PDM/PDM package 3.1.6
6.136MB/6.136MB
159.3MB/159.3MB
3.072kB/3.072kB
                                                                                                                              847MB/847MB
                                                                                                                          72.48MB/72.48MB
57.33MB/57.33MB
3.584kB/3.584kB
5.632kB/5.632kB
9.216kB/9.216kB
2db44bce66cd: Loading layer
16d1b1dd2a23: Loading layer
ce3539cc1849: Loading layer
f650705a42eb: Loading layer
                                          ff6e563d7474: Loading layer [
Loaded image: pdm/nginx:0.1.1
                                          8fad67424c4e: Loading layer
86985c679800: Loading layer
6e5e20cbf4a7: Loading layer
ff57bdb79ac8: Loading layer
                                                                                                                          129.3MB/129.3MB
45.45MB/45.45MB
126.9MB/126.9MB
328.4MB/328.4MB
                                           352.8kB/352.8kB
135.2kB/135.2kB
0e0b4ee1c6dc: Loading layer
33aed7748ee3: Loading layer
d4b3beaf4370: Loading layer
a5dfa5095fa0: Loading layer
                                                                                                                           63.03MB/63.03MB
4.462MB/4.462MB
b82e3b647750: Loading layer
3a78daee2228: Loading layer
1cafaac5946a: Loading layer
67574e5e21c2: Loading layer
                                                                                                                           7.68kB/7.68kB
45.28MB/45.28MB
                                                                                                                           3.072kB/3.072kB
3.584kB/3.584kB
7037495e21C2: Loading layer
7037a9cabd46: Loading layer
75e706f4a5ef: Loading layer
f5edbbed4c06: Loading layer
Loaded image: pdm/mdns:0.1.2
                                                                                                                           4.608kB/4.608kB
5.632kB/5.632kB
7.276MB/7.276MB
[Info] PDM package is installed successfully
```



Version 1.0

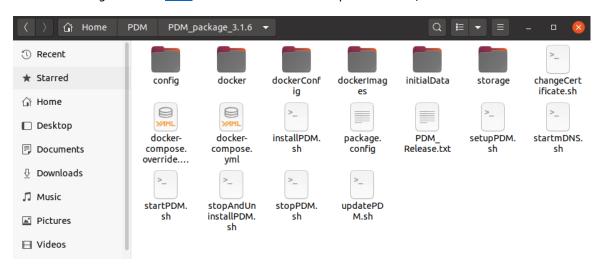
Document Reference No.: BRT_000377

Clearance No.: BRT#179

During the PDM installation, the following folders and their contents are automatically copied *from the* **initialData** *folder* to the package / main directory (i.e. PDM package 3.1.6)-

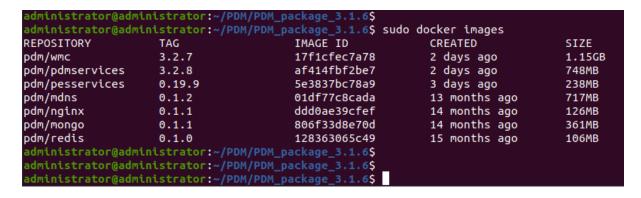
- config,
- docker
- storage

If any configuration changes are made to the above folder/files, ensure that PDM server stopped and started again. Click here for the command to stop the server / services.



e. Check if the following new images are loaded, using the command -

\$ sudo docker images





Version 1.0 Document Reference No.: BRT_000377

Clearance No.: BRT#179

Start the PDM Server using the following command -

\$ sudo ./startPDM.sh

```
administrator@administrator: ~/PDM/PDM_package_3.1.6
                                                                   Q
                                                                                  administrator@administrator:~/PDM/PDM_package_3.1.6$ sudo ./startPDM.sh
[Info] Starting docker stack...
Creating network PDM_bridge
Creating service PDM_pes
Creating service PDM_redis
Creating service PDM wmc
Creating service PDM_mongo
Creating service PDM_nginx
Creating service PDM_pdm

    PDM started successfully

After 10 seconds, check all the services using "sudo docker service ls"
2) Starting "mDNŚ"
2abc1e4c45c511654c93bf4353617a1d9f62908a823b080849a2ccd89961de00
administrator@administrator:~/PDM/PDM_package_3.1.6$
administrator@administrator:~/PDM/PDM_package_3.1.6$
administrator@administrator:~/PDM/PDM_package_3.1.6$
```

- g. Ensure that all the PDM services are up and running using the following command -
 - \$ sudo docker ps

```
nistrator@administrator:~/PDM/PDM_package_3.1.6$ sudo docker ps
CONTAINER ID
                   IMAGE
                                             COMMAND
                                                                       CREATED
                                                                                           STATUS
                                                                                                                PORTS
                                                                                                                                    NAMES
e5684293c901
                   pdm/nginx:0.1.1
                                              "nginx -g 'daemon of..."
                                                                       2 minutes ago
                                                                                           Up 2 minutes
                                                                                                                80/tcp
                                                                                                                                    PDM nginx.1.z1oi3tm64b64bz8z1zqid8ebx
                                                                                           Up 3 minutes
90eade8a77bf
                   pdm/pdmservices:3.2.8
                                              "/usr/bin/systemctl"
                                                                       3 minutes ago
                                                                                                                1947/tcp
                                                                                                                                    PDM_pdm.1.kygv8if6dzmgu0jnrkhfrxk6n
                                              "pm2-runtime mdns.js"
                                                                                           Up 3 minutes
2abc1e4c45c5
                   pdm/mdns:0.1.2
                                                                       3 minutes ago
                                                                                                                                    PDM_mdns
7da7be96e27c
                   pdm/mongo:0.1.1
                                              'docker-entrypoint.s..."
                                                                       3 minutes ago
                                                                                           Up 3 minutes
                                                                                                                27017/tcp
                                                                                                                                    PDM_mongo.1.ymmaytuk435s4jssxdgcxgk47
                                                                                                                                    PDM_wmc.1.sqzlh14adjiqx6qkv9i9m4u4j
6da756dfbdd6
                   pdm/wmc:3.2.7
                                              "bash -c 'cd /home/p..."
                                                                       3 minutes ago
                                                                                           Up 3 minutes
                   pdm/redis:0.1.0
0083825e7b5b
                                              "/entrypoint.sh /run..."
                                                                                           Up 3 minutes
                                                                                                                6379/tcp
                                                                                                                                    PDM_redis.1.shkw6h501pqoprly2j0kjza0p
                                                                       3 minutes ago
                                             "docker-entrypoint.s..."
58d960668abd
                   pdm/pesservices:0.19.9
                                                                                           Up 3 minutes
                                                                                                                                    PDM_pes.1.mc883ym0xg1wf92ssvuo6n322
                                                                       3 minutes ago
  ministrator@administrator:~/PDM/PDM_package_3.1.6$
```

\$ sudo docker service ls

```
locker service ls
administrator@administrator:~/PDM/PDM_package_3.1.6$ sudo_
                                                           REPLICAS
                   NAME
                                       MODE
                                                                               IMAGE
                                                                                                        PORTS
jun5yt07q4qz
                   PDM_mongo
                                       replicated
                                                                               pdm/mongo:0.1.1
                   PDM_nginx
lvsw8fbk3j74
                                       replicated
                                                                                                         *:80->80/tcp, *:443->4430/tcp, *:3000->3000/tcp, *:3002->3002/
                                                                               pdm/nginx:0.1.1
tcp, *:9881->9881/tcp
                   PDM_pdm
                                                                               pdm/pdmservices:3.2.8
                                                                                                        *:1947->1947/tcp, *:3001->3001/tcp, *:65533->65533/tcp
0hze1c3smu2b
                                       replicated
krxexpeqlyju
                                                                                                        *:56368->56368/tcp
                   PDM_pes
                                       replicated
                                                                               pdm/pesservices:0.19.9
                                                                               pdm/redis:0.1.0
olpa6u8rp95h
                   PDM_redis
                                       replicated
nnjpgc3a6sl5
                   PDM_wmc
                                       replicated
                                                                               pdm/wmc:3.2.7
```

The **replicas column 1/1** value, indicates that all the PDM services are up and running.



Clearance No.: BRT#179

2.2 Update PDM Server Software Package

The steps to update the PDM Server Software are given below -

a. To update the software package, go to the new package directory path and run the following command (Note: ensure the PDM is running before executing the command)

```
$ sudo ./updatePDM.sh
```

A confirmation message - "If you wish to use the previous version data and configuration? Yes / No" is displayed. Select **Yes (Recommended)** and enter the old software package directory path to retain all previous PDM server and console configuration data.



If **No** is selected, then the default configuration will be copied and the older version data is removed. (I.e. all the previous PDM Console information will be lost and all the service configuration files have to be re-edited).

```
freshmachine@freshmachine-VirtualBox:~/HDBS/PDM_package_2.0 .24$ sudo ./updatePDM.sh
The PDM package will be upgraded to the latest version
[Warning] Please STOP the PDM server before upgrading the PDM package
                                                         SERVICES
                                                                                                                  ORCHESTRATOR
Yes: It will use the previous package data configuration
No: It will use the new package data configuration (previous data will be lost)
Manually: It will not make any changes
Do you wish to re-use the previous data (or) configure manually ? [Yes/No/Manually] Yes
Enter the previously installed package path:
/home/freshmachine/HDBS/PDM_package_2.0.23
[Info] The following folders/files are copied from the previous PDM package (config, storage, docker-compose.yml)
image:-pdm/pdmservices, Version:-2.0.14, NewVersion:-2.0.16
image:-pdm/wmc, Version:-2.0.16, NewVersion:-2.0.16
image:-pdm/mdns, Version:-0.1.2, NewVersion:-0.1.2
image:-pdm/nginx, Version:-0.1.1, NewVersion:-0.1.1
image:-pdm/redis, Version:-0.1.1, NewVersion:-0.1.1
image:-pdm/redis, Version:-0.1.0, NewVersion:-0.1.0
[Info]
   Ensure that you know the previous package version path in order to reuse the configuration files.
                                                    | Installed Version
| 2.0.14
    |Image Name
                                                                                                                           Re-Installed
     pdm/pdmservices
                                                                                                                           No
     pdm/wmc
                                                             2.0.16
                                                                                                                           No
     pdm/mdns
                                                             0.1.2
                                                                                                                           No
                                                             0.1.1
                                                                                                                            No
     pdm/nginx
    |pdm/redis
                                                                                                                           No
```

b. Start all the services using the following command -

```
$ sudo ./startPDM.sh
```

c. Upon successfully updating the package, enter the following command to ensure that all the services are up and running –

```
$ sudo docker ps
```



Version 1.0

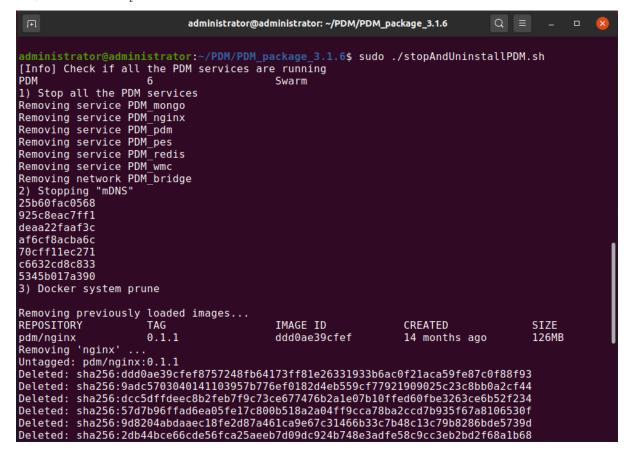
Document Reference No.: BRT_000377

Clearance No.: BRT#179

2.3 Uninstall PDM Server Software Package

To uninstall PDM,

- a. Run the following command -
 - \$ sudo ./stopAndUninstallPDM.sh



Clearance No.: BRT#179

D. Domain Configuration for PDM Server Software Installation

After the PDM Server Software installation, the network administrator MUST resolve the following DNS Domains:

- √ app.domainname
- √ api.domainname
- ✓ socket.domainname

where in the *domain name* refers to the *organization's domain name*. For example, if the organization's name is ABC Pte Ltd, then the domain name can be abc.com or abc.local.

The DNS records can be created/added in the following ways -

- Local Host File
- Local DNS
- Global DNS

1. Configure Local Host File

To configure the domains on a server/client PC, open the client local host file which can be found in path **C:\Windows\System32\drivers\etc\hosts** and add the server IP address and the associated domain name as shown below:

```
*C:\Windows\System32\drivers\etc\hosts - Notepad++ [Administrator]
                                                                          ×
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
] 👁 🖹 🔏 🕞 🕞 🕞 🕞 🖟 🖟 🖟 🌓 🖒 🗢 🖒 😭 🕳 😭 🕾 🕒 🖺 🖺 🖺 🕞 🗷

    hosts 
    ■
     # Copyright (c) 1993-2009 Microsoft Corp.
     # This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
     # This file contains the mappings of IP addresses to host names. Each
     # entry should be kept on an individual line. The IP address should
     # be placed in the first column followed by the corresponding host name.
     # The IP address and the host name should be separated by at least one
     # Additionally, comments (such as these) may be inserted on individual
     # lines or following the machine name denoted by a '#' symbol.
 13
 14
     # For example:
 15
 16
            102.54.94.97
                             rhino.acme.com
                                                      # source server
                                                     # x client host
 17
             38.25.63.10
                           x.acme.com
 18
 19
     # localhost name resolution is handled within DNS itself.
 20
         127.0.0.1 localhost
 21
         ::1
                         localhost
 23
     10.44.0.74 app.pdm.local
                                     # pdm.local -> your_domain.local
 24
 25
     10.44.0.74 api.pdm.local
                                     # pdm.local -> your_domain.local
     10.44.0.74
                 socket.pdm.local
                                     # pdm.local -> your_domain.local
```

Clearance No.: BRT#179

2. Browser (With BRT SSL)

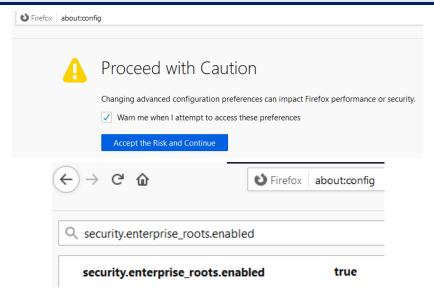
To run the PDM Console and Outlook Add-In on a client PC if default Bridgetek's certificate is installed-

Windows:

- a. Click Start → Run.
- b. Enter "MMC" to open Microsoft Management Console.
- c. Go to File -> Add/Remove Snap-in.
- d. Click Certificates, and select Add.
- e. Select Computer Account, and click [Next].
- f. Select Local Computer and click [Finish].
- g. Click OK to go back to main MMC console window.
- h. Double-click Certificates (local computer) to expand its view.
- Right-click Certificates under Trusted Root Certification Authorities and select All Tasks then click [Import].
- j. Complete the wizard to import the "brtroot.pem" file in the software package provided.
- k. Select "Place all certificates in the following store" and select the **Trusted Root Certification Authorities store**. Click **[Next]**, then click **[Finish]** to complete the wizard.

Once the certificate is successfully imported, the installed certificate authority (www.brtchip.com) will appear on the certificate pane.

NOTE1: If any warning is displayed while connecting to PDM web console, open FireFox browser and type – about:config and click <Enter>. Click [Accept the Risk and Continue]. In the search box, type security.enterprise_roots.enabled. If the value is "False", then double click and change the value to "True".

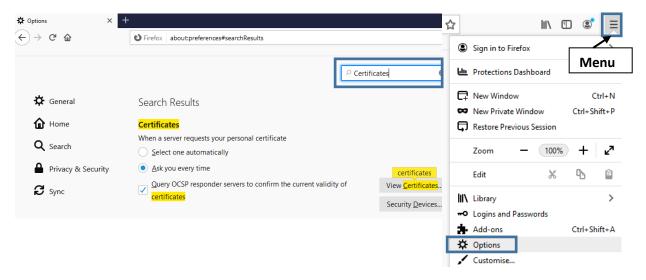


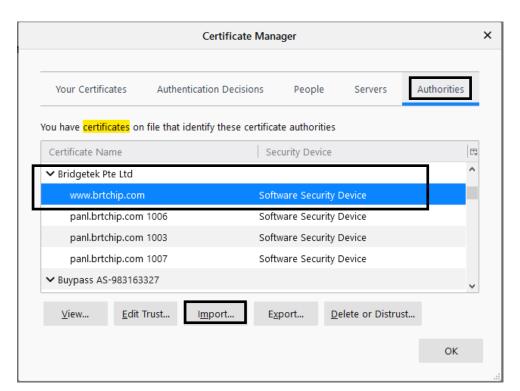


Clearance No.: BRT#179

Importing certificate into Firefox browser

- a. Open FireFox browser.
- b. Navigate to Menu → Options → Search Certificates → View Certificates → Authorities tab → Click Import and import the certificate.





The uploaded certificate will be displayed under the Authorities tab under Bridgetek Pte Ltd.



Clearance No.: BRT#179

Linux (Debian/Ubuntu):

To install root SSL certificate in Ubuntu, open the terminal and do the following.

a. Convert the rootCA.pem file from .pem to .crt by using this command

```
openssl x509 -outform der -in <rootCA.pem> -out <rootCA.crt>
```

b. Type the commands given below:

```
sudo mkdir /usr/local/share/ca-certificates/extra
sudo cp rootCA.crt /usr/local/share/ca-certificates/extra/
sudo update-ca-certificates
```

Once the root SSL certificate is installed, follow the steps given below to open the PDM console on client browser:

FireFox & Safari:

- a. Open browser -> enter about:config on url page
- b. Accept the risk
- c. Search security.enterprise_roots.enabled --> set to True (double click)
- d. Open the console URL: <a href="https://app.<domain_name">https://app.<domain_name>
- e. Enter the default admin username and password and log in.

<u>NOTE:</u> If not working for Firefox: Go to Firefox browser \rightarrow Enter about:preferences on url page \rightarrow Certificates \rightarrow Import \rightarrow Import the "rooCA.perm" file under the software package.

Chrome Browser:

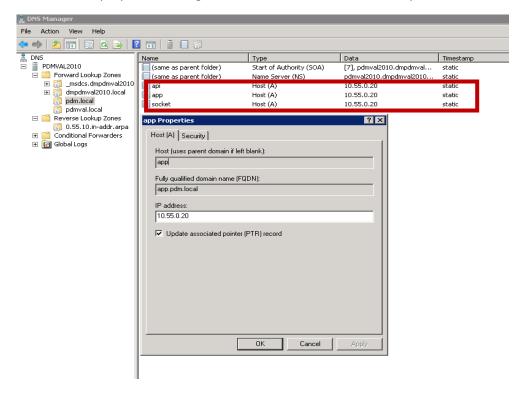
- a. Open the URL: https://api.<domain_name>
- b. Enter the default admin username and password
- c. Open the console URL: <a href="https://app.<domain_name">https://app.<domain_name>
- d. Enter the default admin username and password and log in.



Clearance No.: BRT#179

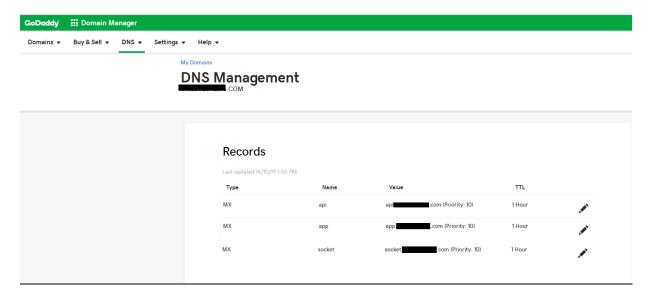
Local DNS

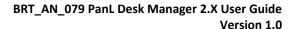
To configure the domains on a local DNS server, ensure the DNS records are created in the exchange server. For illustration purpose exchange server 2010 is used in the example below -



Global DNS

To configure a public domain on a purchased GLOBAL DNS host server (for example GODADDY), create the DNS records as shown in the picture below-







Clearance No.: BRT#179

PDM Web Console

Clearance No.: BRT#179

V. Getting Started with PDM Console

The PDM Console is a web browser based GUI application that serves as a one-stop management tool enabling administrators to configure the PDM Server Software such as to manage resource assignment, desk booking policies, display panel and calendar configurations. The PDM Console can be connected via a secure HTTPS connection using any one of the following web browsers – *Chrome, Mozilla Firefox, Microsoft Edge or Safari.*

A. Logging In

In order to access the PDM console, ensure that the PDM Server Software is up and running. The steps to access the PDM console are provided below. Open any supported web browser (Chrome / Mozilla Firefox / Safari) and enter the console URL <a href="https://app. https://app.brtchip.com.

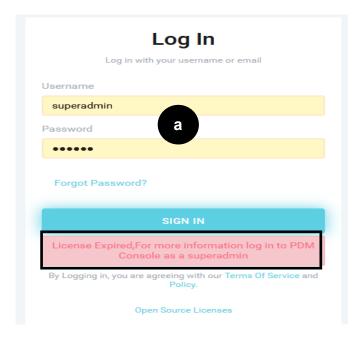
If opening console on a client PC using default Bridgetek's SSL certificate, please refer to the section **Browser (with BRT SSL)**.

The PDM server must have a valid license to access all the PDM features. To obtain the license, the customer must *GENERATE FINGERPRINT* (using the license interface) and send the fingerprint file to the vendor (i.e. PDM Support). The vendor in turn will generate and send the license file to the customer's registered email address. Upon receiving the license file, customer must activate it using license interface. The license interface is available only for SUPER ADMIN USERS.

1. Generate License

To access license interface and generate FINGERPRINT -

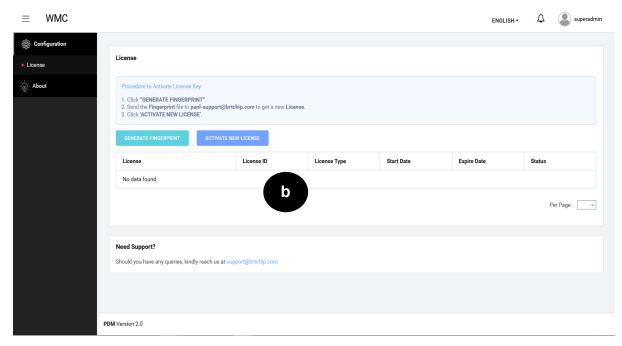
a. Log in to PDM Console with *Username* and *Password*. Click **[SIGN IN]**. If PDM license is not valid or if the license has expired, an appropriate message indicating the same is displayed.





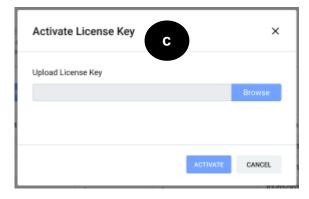
Clearance No.: BRT#179

b. Upon successful sign-in to the PDM Console, The License interface is displayed with the list of available license(s) if any. For the first time users, this **interface will be empty.**

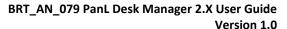


Click **[GENERATE FINGERPRINT]**. A fingerprint file with extension .c2v (for example - Current_.23-08-2020 12-39-36.c2v) will be generated and saved in the preferred location. Email the file to the vendor (i.e. PDM Support) to obtain the license key. The license key will be sent as a file with extension .v2c (for example - 72543085074299640.V2C) to the registered email address. Upon getting the license key, click **[ACTIVATE NEW LICENSE]**.

c. Click [Browse] and select the license key to upload.

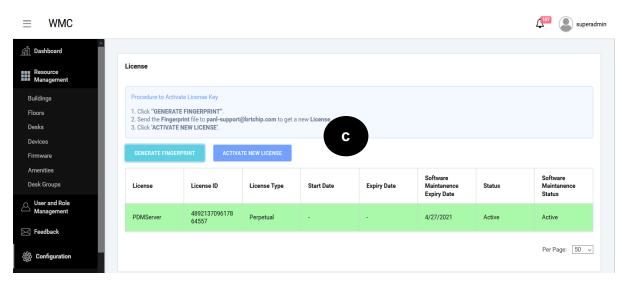


Upon selecting the license file, click **[ACTIVATE]** to upload the license file to the PDM Server and activate the license. Upon activating the license key, the user will be automatically signed out of PDM Console. Log in to PDM console. A list of menu functions (based on the user's access privileges) is displayed on the left side panel. To access License interface and verify license information, click **Configuration** \rightarrow **License**.



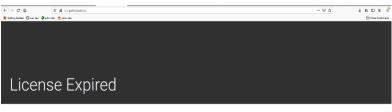


Clearance No.: BRT#179



Upon expiry of license, an appropriate message indicating the same is displayed in *PanL35L Desk Display/Outlook Add Ins / Mobile App / Desk Viewer*.





License Expired

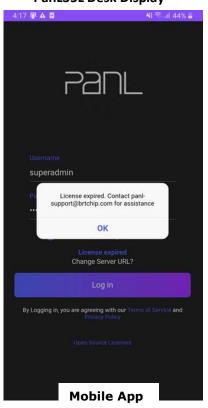
For more information log in to PDM Console as a superadmin Contact panl-support@brtchip.com. for assistance

Desk Viewer

Upon generating / renewing the license, the next step is to update the Exchange Server using the PDM Console (WMC).



PanL35L Desk Display



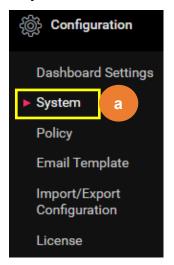


Clearance No.: BRT#179

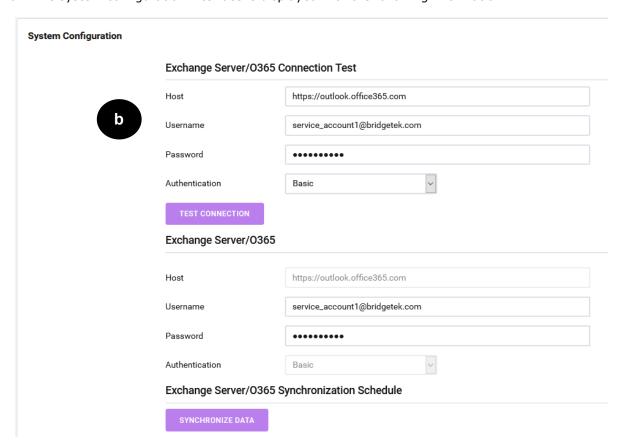
2. Update System Configuration

To update calendar server and PDM server settings -

a. Click on the **Configuration** > **System** menu.



b. The system configuration interface is displayed with the following information -



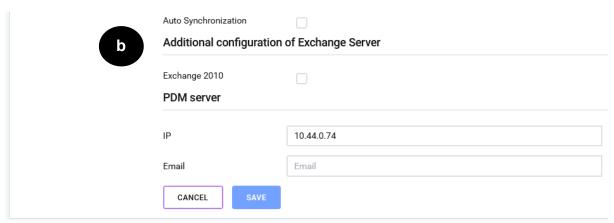


BRT_AN_079 PanL Desk Manager 2.X User Guide

Version 1.0

Document Reference No.: BRT_000377

Clearance No.: BRT#179



Exchange / Office365 Server

- Click on [TEST CONNECTION] button to verify the connection between the Exchange/Office365 Server and PDM Server.
- Host

Refers to the Calendar Server IP Address.

- Exchange Server Service Account Name / Password
 Refers to the Exchange/Office365 Server log in credentials.
- Authentication
 - Basic Refers to the authentication for Office365
 - NTLM (New Technology Lan Manager) Refers to the server based authentication. For example, Exchange Server 2010/2013/2016 and 2019

Exchange/Office365 Server Synchronization Schedule

- Click on the *Auto Synchronization* check box and select a time from the dropdown control to trigger automatic data synchronization of all users and desks data. If the check box is disabled then you have to perform a manual synchronization.
- Click on **[SYNCHRONIZE DATA]** button to manually synchronize the data from exchange/office365 server.

Additional Configuration of Exchange Server*

* Applicable only if the Exchange 2010 check box is selected / enabled

Click on the Exchange 2010 check box to input / update the following fields -

URL (LDAP)

Refers to the LDAP IP address.

• Bind Domain Name

Refers to the Exchange Server User name

Bind Credentials

Refers to the password

Search User Name Domain

Refers to the domain controller credentials. For example, if the name is CN=USERS, DC=Bridgetek.LOCAL, the CN refers to the Common Name and indicates "Users"; DC refers to the Domain Component and the parameter indicates the Domain Name.



BRT_AN_079 PanL Desk Manager 2.X User Guide

Version 1.0

Document Reference No.: BRT_000377

Clearance No.: BRT#179

PDM Server

IP

Refers to the PDM Server IP address. This IP address is mandatory and will be used to on-board the desk panel as well as update desk panel firmware through OTA.

• Email

Refers to the Service Account's email id. Whenever there is a change in the administrator's password credential or resource active status changes, an email will be sent to this email id communicating of the changes

Contact

Refers to the Contact number of Administrator.

Upon editing these fields as required, click on [SAVE] to store the changes, if any.

Upon successful system configuration, On-board the PanL35L devices. Refer to the section **On-board Desk Panel Device (PanL35L)***.

To use the other PDM Console functions, refer to the section **Getting Started with PDM Console.**



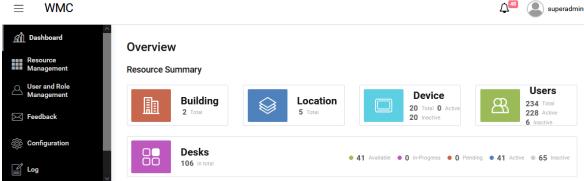
Clearance No.: BRT#179

B. Change Password

To change the default admin password -

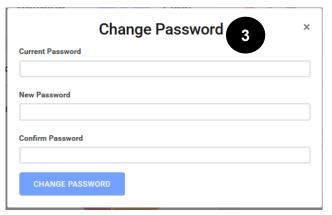
- 1. Click on the User Profile icon .
- 2. Select Change Password.





- 3. Enter the following -
 - **Current Password**
 - **New Password**
 - Confirm New Password

Upon entering the required information, click on [CHANGE PASSWORD].





Clearance No.: BRT#179

C. Forgot Password

The Forgot Password function allows user to recover the password. To recover password-

1. Click Forgot Password?



Log in with your username or email

Username
Username
Password
Password
Forgot Password? 1
By Logging in, you are agreeing with our Terms Of Service and Policy.
Open Source Licenses

2. Enter the *System Email* and click **[SEND]** to receive the verification code.

Recover Password

Recover system password

System email (receive verify code)

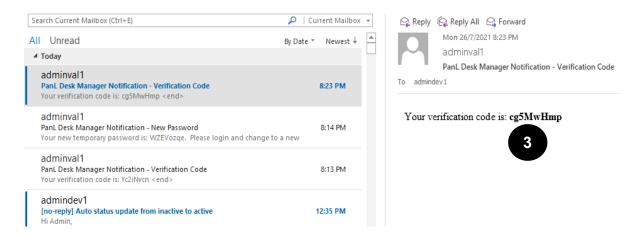
admin-dev1@mrbstest.com

BACK SEND 2



Clearance No.: BRT#179

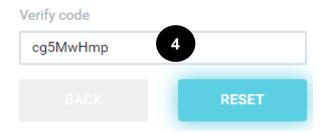
3. A *verification code* will be sent to the email id that was provided in the Recover Password interface.



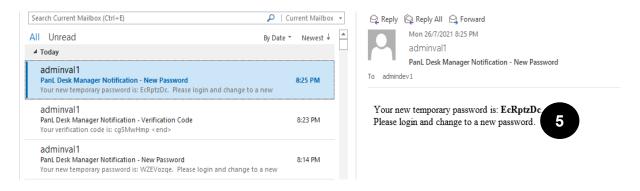
4. Enter the verification code in the Recover Password interface and click [RESET].

Recover Password

Recover system password



5. A *temporary password* generated by the system will be sent to the Email Id that was provided in the Recover Password interface.





Clearance No.: BRT#179

6. Enter the Username and the temporary password in the Password field. Click [SIGN IN].

Log In

Username

superadmin

Password

Forgot Password?

SIGN IN 6

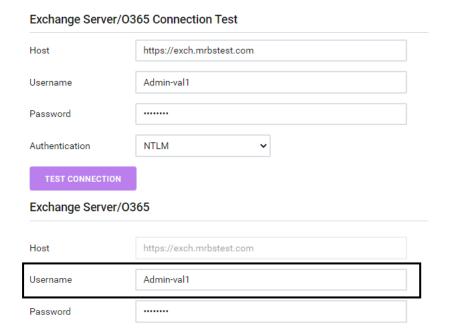
By Logging in, you are agreeing with our Terms Of Service and Policy.

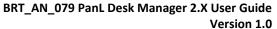
Open Source Licenses

Upon successfully signing in with the temporary system password, the PDM Console is displayed. Using the Change Password function, update your temporary password. Upon successfully changing the password an appropriate message will be displayed.

<u>NOTE 1:</u> Reset Password email will be sent from the User Name that is mentioned in the Configuration \rightarrow System interface *Exchange Server/0365 - User Name* field. Refer to the screenshot.

System Configuration

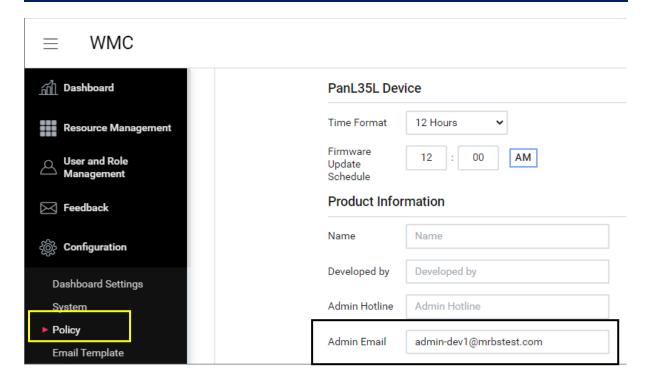






Clearance No.: BRT#179

NOTE 2: The verification code and the system generated temporary password will be sent to the Email Address mentioned in the Configuration \rightarrow Policy interface *Product Information - Admin Email* field. Refer to the screenshot.





Clearance No.: BRT#179

D. PDM Console Overview

The PDM Console main menu is displayed on the left and can be extended by clicking on it to display the sub menus. The following table provides an overview of the PDM Console Menu/Submenu and their functions.

Menu	Submenu	Functionality
Dashboard	-	Resource Summary / Booking Summary / Desk Utilization / Leader board etc.
Resource	Buildings	→ Add / Edit / Delete / Search Building Information
Management	Locations	→ Add / Edit / Delete Location Information / Assign Desk to Location / Search Location information
	Desks	→ Edit Desk Information/ Assign Desk to a device / Un- assign / Re-assign desk / Search Desk information
	Devices	→ Assign Device to a desk / Un-assign device / Re-assign device to a desk / Device Settings / Delete Device / Search Device information
	Firmware	→ Add / Delete Firmware / Configure Firmware Auto Update / Update Firmware Manually / View Device Log
	Amenities	→ Add / Edit / Delete Amenities
	Desk Groups	→ Create / Edit / Delete Desk Group / Add Desks to Desk Group Transfer Desk to another Desk Group / Configure Desk Booking Policies / Configure Amenities
User and Role	Users	→ Edit User Information / Synchronize data from
Management	Hear Crauma	Exchange Server
Feedback	User Groups Feedback	 → Add / Edit / Delete User Group → Create / Edit / Delete Feedback Templates
reedback	Management	7 Create / Lair / Delete reeaback templates
	User Feedback	→ View User Feedback Status
Configuration	Dashboard Settings	→ Configure Dashboard View for different User Group
	System	→ Update Exchange Server / O365 Information, Test Exchange Server / O365 connection, Synchronize Exchange Server / 0365 Schedule, Additional Exchange Configuration and PDM Server Credentials
	Policy	→ Configure general Booking Policy, Booking Reminder etc.
	Email Template	→ Create / Edit / Delete Email Template
	Import / Export Configuration	→ Maintain Server Backup (upon importing new configuration, the previous booking information will be removed).
	License	→ View License / Generate Finger Print / Activate License
Log	System Log	→ To view System Log for system analysis purpose
	User Log	→ To view User Log for user analysis purpose
About	-	→ To view version information of PDM Management Console

The forthcoming sections discusses about each menu/submenu/functions in detail.



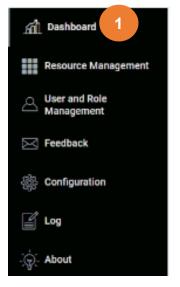
Clearance No.: BRT#179

E. Dashboard

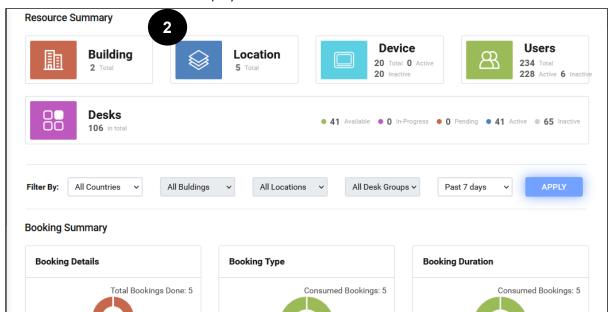
The dashboard displays insightful statistical information on a daily, weekly and monthly basis from processing various desk booking and user data. Through observing the statistics, management can plan and reorganize the whole desk booking structure and policies to improve desk utilization. The dashboard view varies depending on the permission given to the respective user group. If a particular user group is not configured, then member of that user group will see a blank dashboard upon logging into WMC. Refer to <u>Dashboard Settings</u> for more details.

To view the dashboard -

1. Click on the Dashboard menu.



2. The dashboard interface is displayed.





Clearance No.: BRT#179

Overview

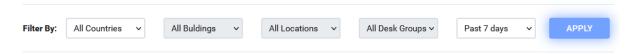
Dashboard's **overview** section provides a summary of resources - *Total number of Buildings;* Locations; Devices (Active / Inactive); Users (Active / Inactive); Desks / Status (Available / In Progress / Pending / Active and Inactive).

Resource Summary



Filter

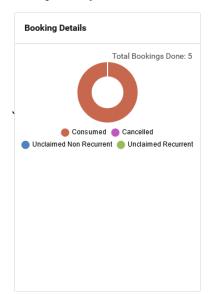
Users can **filter** Dashboard data based on *County; Building; Location & Desk Groups*. Alternately, users can filter data based on *Timeframe (i.e. Past 7 days or Past 4 Weeks or Past 12 Weeks or Past 6 months or Custom Range)*. Upon selecting the required filter criteria and clicking **[APPLY]**, the dashboard data is populated based on the applied filter criteria.



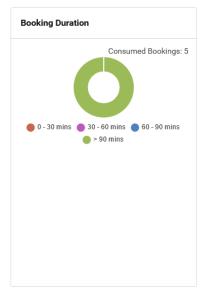
Booking Summary

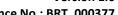
The **Booking Summary** section provides pictorial representation (doughnut chart) of information about the **Booking Details, Booking Type** and **Booking Duration**.

Booking Summary









Clearance No.: BRT#179



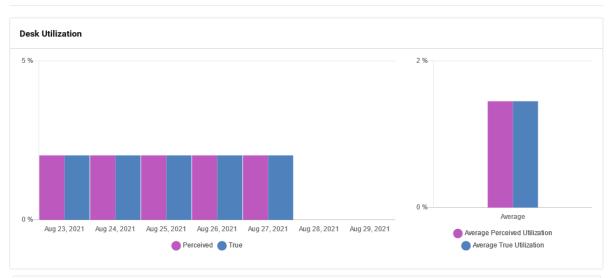


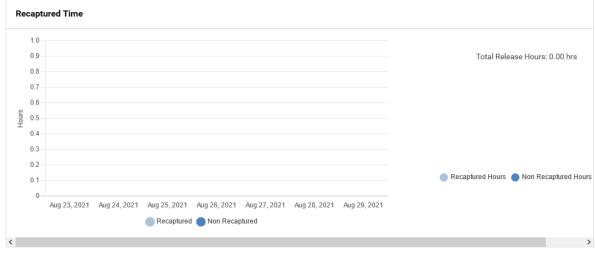
Bridgetek

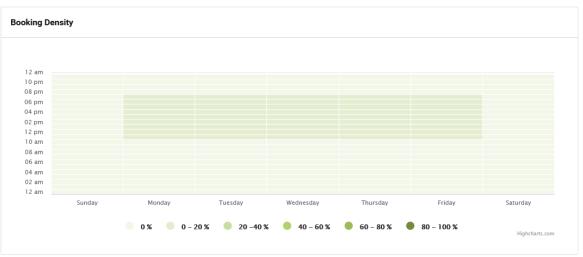
Utilization

The Utilization section provides pictorial representation of information pertaining to Desk Utilization (Stacked bar chart / Histogram), Recaptured Time (Stacked bar chart / doughnut chart) and **Booking Density** (Heat map chart).

Utilization









Clearance No.: BRT#179

Leader board

The **Leader board** section provides information pertaining to **Desk Leader board** (Most Used Desks / Least Used Desks} and **User Leader board** (Most Active Users / Top Ghost Users).

Leaderboard

Desk Leaderboard

Most Used Desks

No.	Desks	Consumed Bookings	Consumed Hours		
1	D70506	5	45:00		

Least Used Desks

No.	Desks	Consumed Bookings	Consumed Hours		
1	D70506	5	45:00		

User Leaderboard

Most Active Users

No.	Users	Consumed Bookings	Consumed Hours	Unclaimed Bookings	Cancelled Bookings	Total Bookings	Recurrent Bookings	Unclaimed Rate
1	Sun Yajun (BRT- SG)	5	45:00	0	0	5	0	0

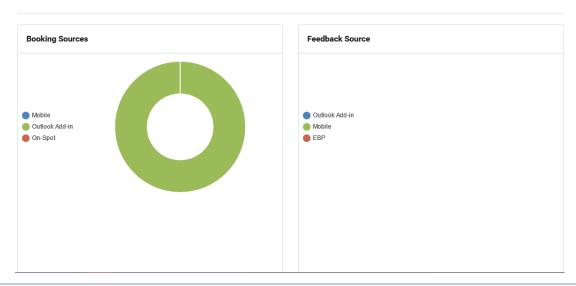
Top Ghost Users

No.	Users	Unclaimed Bookings	Consumed Bookings	Unclaimed Rate	
1	Sun Yajun (BRT-SG)	0	5	0	

Miscellaneous

The **Miscellaneous** section provides pictorial representation of information pertaining to **Booking Sources** (Mobile / Outlook Add-in / On-Spot) and **Feedback Source** (Mobile / Outlook Add-in/EBP).

Miscellaneous





Clearance No.: BRT#179

F. Resource Management

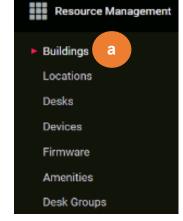
1. Building Management

Through the Building Management interface, admin users can add, edit, delete and search buildings within their organization. Multiple buildings at different sites or countries can be configured for organizations which have multi-site offices.

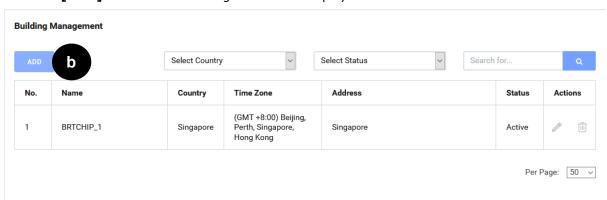
1.1 Add Building

To add building information -

a. Click on the **Resource Management** > **Buildings** menu.



b. Click [ADD]. The Create Building interface is displayed.



- c. Enter the following information -
 - Building Name*
 - Country*
 - Time Zone*
 - Building Status* Active / Inactive
 - Duration until which the building will be inactive* (This field will be displayed and applicable only if the Inactive status is selected)

NOTE: If a building is made inactive, then all the locations/desks under that building will be made inactive.

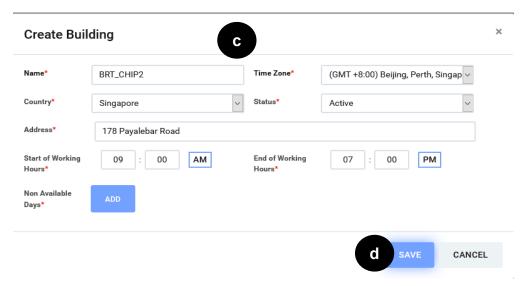
- Building Address*
- Building's official Working Hours Start Time and End Time*
- Click [ADD] to add the Non-Working Days.

(The desk panel will turn on/off based on these settings. The display will turn off after 15 minutes from end time by default if no bookings are made after)

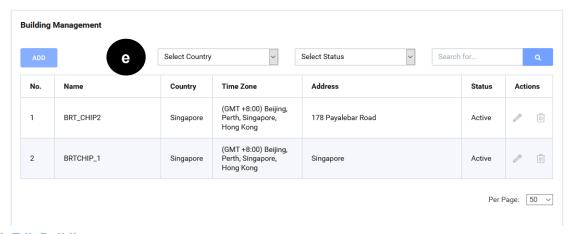
* indicates that all these fields are mandatory.



Clearance No.: BRT#179

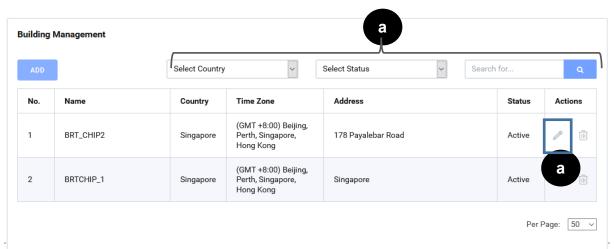


- d. Upon providing the necessary information, click [SAVE].
- e. The newly added building information is displayed on the table.



1.2 Edit Building

a. From the table, click **Edit** for the building that needs to be updated. The search building function can be used by providing the search parameters in the **Search** box or filtering based on *Country* or *Status*.

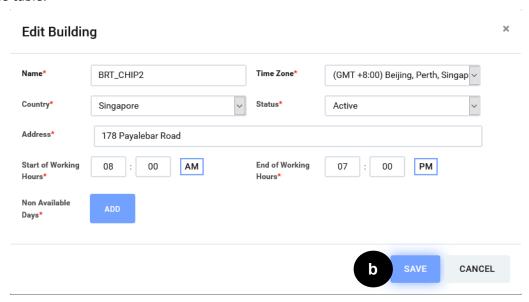






Clearance No.: BRT#179

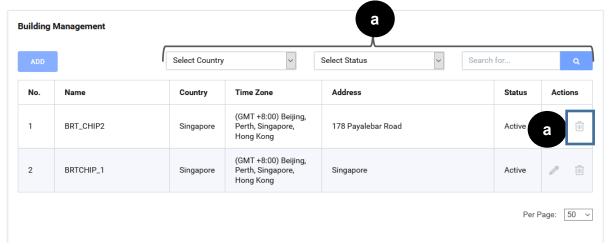
b. The Edit Building interface is displayed with all the building information. Edit the Building information as required and click **[SAVE]**. The updated information (if any) will be displayed on the table.



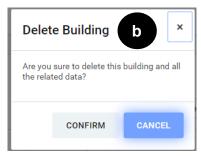
1.3 Delete Building

Bridgetek

a. From the table, click **Delete** for the building which needs to be deleted. The search building function can be used by providing the search parameters in the **Search** box or filtering based on *Country* or *Status*. Building information cannot be deleted if it contains Locations. In order to delete building information, first delete the location information.



b. A confirmation dialog box is displayed. Click **[CONFIRM]** to delete the building or **[CANCEL]** to cancel the delete operation.



The data is permanently deleted and will no longer be displayed on the table.



Buildings

Locations

Desks Devices

Firmware

Amenities Desk Groups

Clearance No.: BRT#179

Resource Management

2. Locations Management

Through the Locations Management interface, admin users can *add*, *edit*, *delete* and *search* a *location* within a created building. Desk layout maps can be uploaded to the respective locations to which desk names and panels can be assigned.

2.1 Add Location

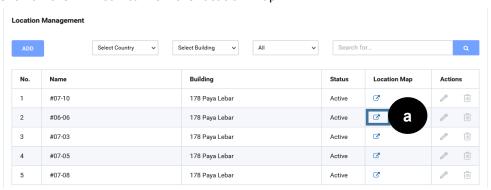
All the steps for adding location are same as that of <u>Add Building</u>. The additional step is to upload Location Map. Click [Browse] and select the location map to upload and then save the location information. The recommended format is .png.

2.2 Edit Location

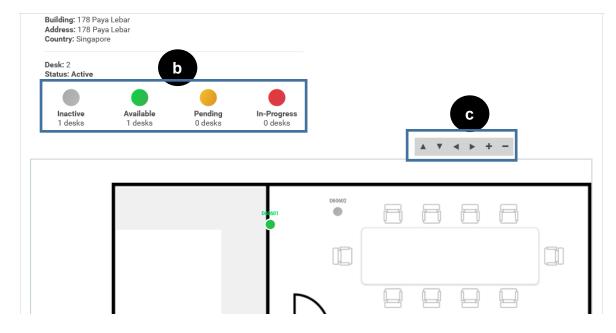
The steps for editing location are same as that of **Edit Building**.

2.3 View Location Map

a. Click on the \square icon to view the location map.



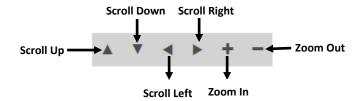
b. The location map is displayed in an expanded view. It provides an overview of the information related to desk assigned (*Total Number of Desks; Number of available/active desks; Desk booking status etc.*)





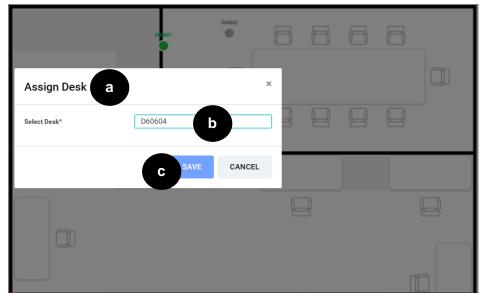


c. The navigation **toolbar** available on top of the location map allows users to perform the following functions –

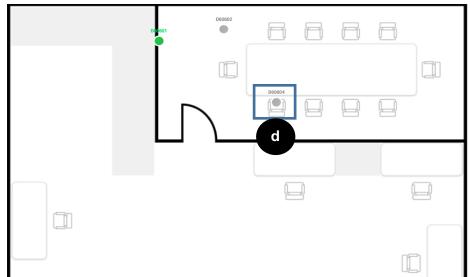


2.4 Assign Desk

a. From the uploaded location map, click on any location that you want to assign a desk. The "Assign Desk" interface is displayed.



- b. Select the **Desk** from the drop down list.
- c. Click [SAVE] to assign the desk to the map location that is selected.
- d. The desk name will be displayed on the map as shown below -

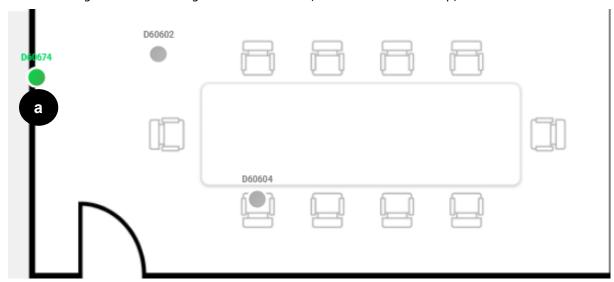




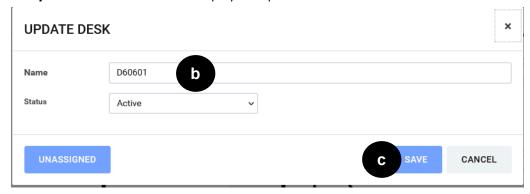
Document Reference No.: BRT_000377 Clearance No.: BRT#179

2.5 Update Desk

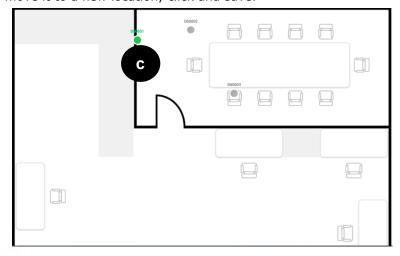
a. To re-assign a desk or change the active status, from the location map, click on the desk icon.



b. The "Update Desk" interface is displayed. Update the Desk Name and Desk Status as required.



Click [SAVE] to store the changes. To move desk to another location, simply click on the Icon and move it to a new location; click and save.





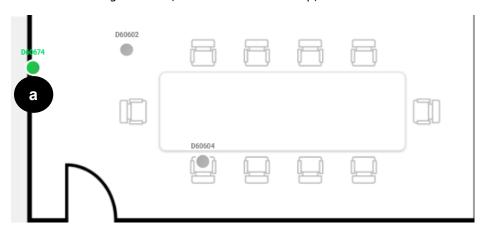


Clearance No.: BRT#179

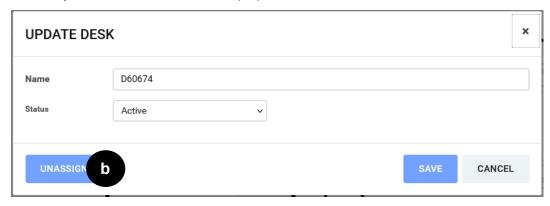
2.6 Un-assign Desk

Bridgetek

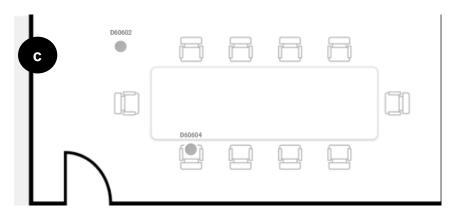
a. To remove an assigned desk, from the location map, click on the desk location icon.



b. The "Update Desk" interface is displayed.



c. Click **[UNASSIGN].** The desk is unassigned and the desk is removed from the map.



NOTE: Ensure that the desk is not associated with any of the desk groups. If so, remove the desk from the desk group before un-assigning.

2.7 Delete Location

The steps for deleting location are same as that of **Delete Building**. Ensure that the selected location does not have any desk assigned to it. If so, first un-assign the desk and then proceed with the delete operation.



Clearance No.: BRT#179

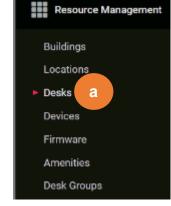


Bridgetek

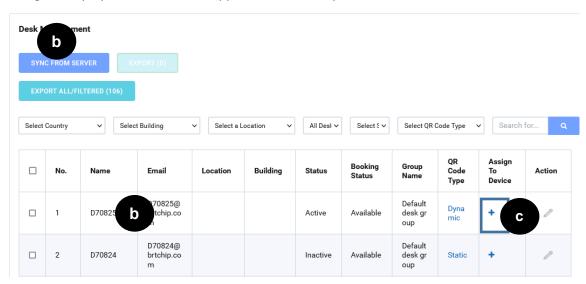
Through the Desk Management interface, admin users can assign a desk name to desks created via the calendar servers and also to attach a desk panel for desk availability status indicator, on spot desk booking and claim features.

3.1 Assign Desk Name & Panel to a Desk

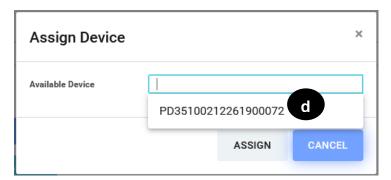
a. Click on the **Resource Management** > **Desks** menu.



b. Click [SYNC FROM SERVER] to synchronize all the available desks from the calendar server. Assign a display name which will appear on the desk panels.



- Click to access the "Assign Device" interface to assign a desk panel.
- Select the Device UUID using the auto search of un-assigned desk panel devices and click [Assign].



Clearance No.: BRT#179

e. The "Assign To Device" column on the table will be updated with the Device UUID.

	No.	Name	Email	Location	Building	Status	Booking Status	Group Name	QR Code Type	Assign To Device	Action
0	1	D70825	D70825@ brtchip.co m			Active	Available	Default desk gr oup	Dyna mic	PD3510 021226 190007 2	
	2	D70824	D70824@ brtchip.co m			Inactive	Available	Default desk gr oup	Static	е	

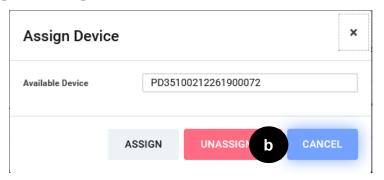
If the desk panel assigned has gone through on-boarding and is powered up, the display should immediately reflect the current desk booking status.

3.2 Un-Assign Device

a. The list of desk panel devices that are assigned to a desk are displayed (as a link) under the "Assign To Device" column in the table. Click on the Device link to un-assign a desk panel from desk.

No.	Name	Email	Location	Building	Status	Booking Status	Group Name	QR Code Type	Assign To Device	Action
1	D70825	D70825@ brtchip.co m			Active	Available	Default desk gr oup	Dyna mic	PD3510 021226 190007 2	
2	D70824	D70824@ brtchip.co m			Inactive	Available	Default desk gr oup	Static	а	0

b. The **"Assign Device"** interface is displayed with the details of the assigned device. To un-assign a device, click **[UNASSIGN]**.



c. The "Assign To Device" column on the table is updated accordingly.

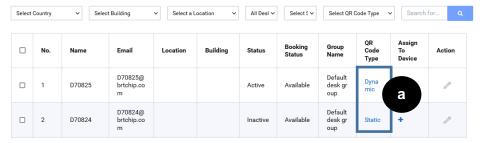
No.	Name	Email	Location	Building	Status	Booking Status	Group Name	QR Code Type	Assign To Device	Action
1	D70825	D70825@ brtchip.co m			Active	Available	Default desk gr oup	Dyna mic	+	
2	D70824	D70824@ brtchip.co m			Inactive	Available	Default desk gr oup	Static	C	Ø



Document Reference No.: BRT_000377
Clearance No.: BRT#179

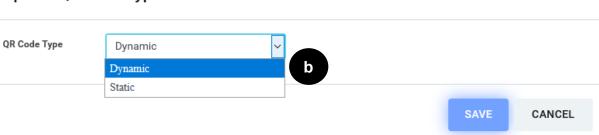
3.3 Assign QR Code Type

a. The QR code type assigned to the desk panel devices are displayed (as a link) under the "QR Code Type" column in the table. Click on the **QR Code Type** Static or Dynamic.



b. The "Update QR Code Type" interface is displayed. Select the *QR Code Type* from the drop down combo box. The default QR Code Type is *Dynamic*.

Update QR Code Type



Static QR Code – Assigning static code for a particular desk, allows users to perform various desk management functions (like desk booking, claiming, etc.) by using the same QR code without even requiring a PanL35 device.

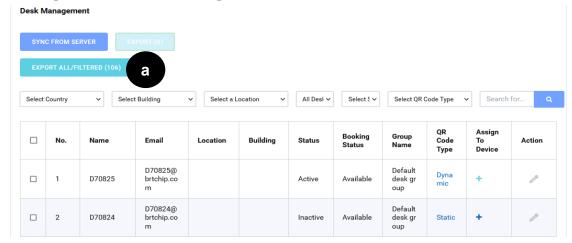
Dynamic QR Code – Assigning dynamic code for a particular desk indicates that the QR code is generated dynamically by the PanL35 device depending on the type of desk management function the user wish to perform.

Upon assigning the QR Code Type, click [SAVE]. The details are updated in the table.

3.4 Export All / Filtered

The Export All/Filtered function allows users to export all desks without applying filter or all desks after applying a filter -

a. Click [EXPORT ALL/FILTERED].



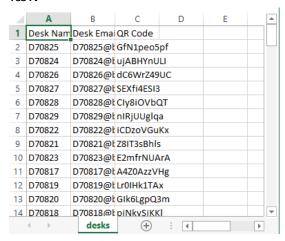
×

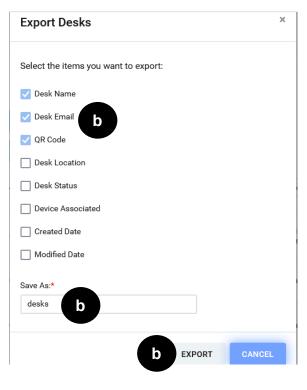


Clearance No.: BRT#179

b. Export Desks interface is displayed with the list of desk related data that can be exported. By default, Desk Name, Desk Email and QR Code are selected for export. Click on the checkbox and select the items to export. Upon selecting the required items, provide a file name in the Save As* field and click [EXPORT].

The exported data is opened or saved in a .CSV.



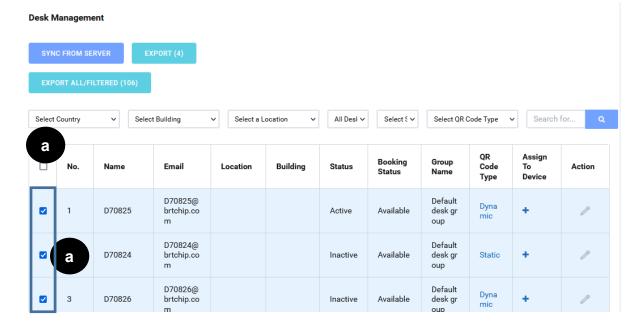


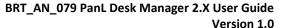
3.5 Export

Bridgetek

The Export function allows users to export the selected desk data from the table.

Select the desk data from the table by clicking on the check box. To select all the desk data, click the checkbox on the header. Upon selecting desk data, click [EXPORT].





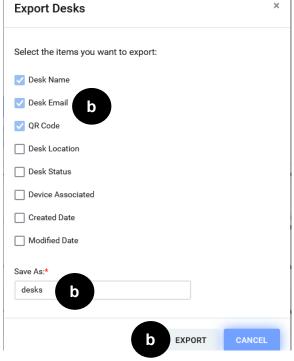


Clearance No.: BRT#179

b. Export Desks interface is displayed with the list of desk related data that can be exported. By default, *Desk Name*, *Desk Email* and *QR Code* are selected for export. Click on the checkbox and select the items to export. Upon selecting the required items, provide a file name in the Save As* field and click **[EXPORT].**

The exported data is opened or saved in a .csv.





3.6 Update Desk Information

The steps for updating desk information are same as that of **Edit Building**.



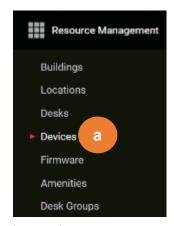
Clearance No.: BRT#179

4. Device Management

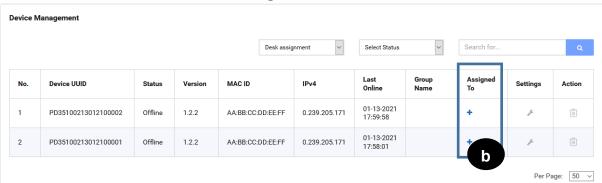
Through the Device Management interface, admin users can assign a desk created to a desk panel device, and configure device settings (brightness).

4.1 Assign Desk to a Device

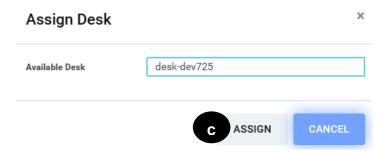
a. Click on the **Resource Management** > **Devices** menu.



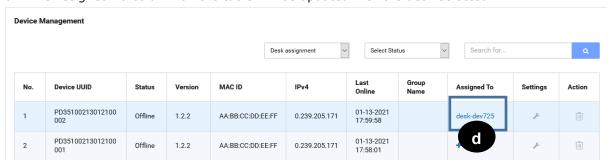
b. The desk display devices which have gone through on-boarding to the PDM server are displayed on the table. Click + to access the "Assign Desk" interface.



c. Select the desk name from the drop down list and click [Assign].



d. The Assigned To column on the table will be updated with the desk selected.

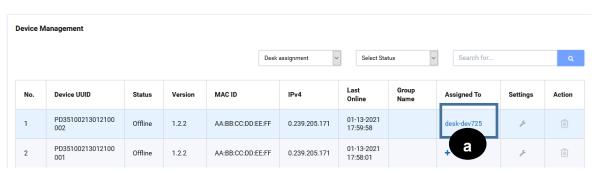




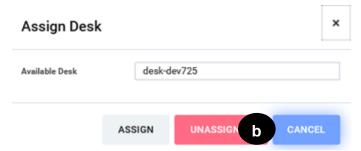
Clearance No.: BRT#179

4.2 Un-Assign Desk

a. The list of desks that are assigned to a desk display devices are displayed (as a link) under the "Assign To Desk" column on the table. Click on the Desk link to un-assign the desk from the desk panel.



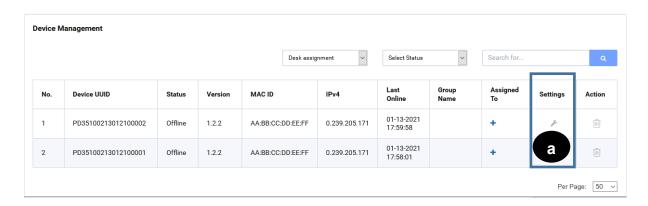
b. The **"Assign Desk"** interface is displayed with the details of the assigned device. To un-assign a desk, click **[UNASSIGN]**.



4.3 Configure Desk Panel Device

Brightness Settings -

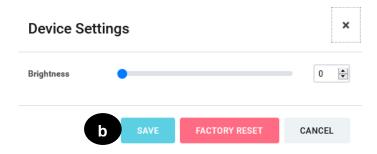
a. Click on the configure / icon for the desk panel to adjust the brightness level.





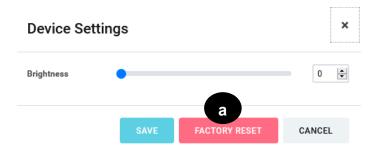
Clearance No.: BRT#179

b. The "Device Settings" interface is displayed. Configure the device *Brightness* as required, by dragging the slider. Click [SAVE] to save the updated settings, if any.

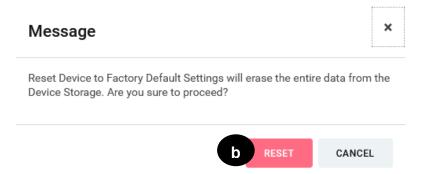


Reset Device to Factory Settings -

a. Ensure that the device is ONLINE. From the Device Settings interface, click [FACTORY RESET].



b. A confirmation dialog box is displayed. Click **[RESET]** to proceed or **[CANCEL]** to cancel and discard the operation.



Upon resetting the PanL35L device to factory settings, all the data will be erased and the device is reset to its original configuration, not connecting to any PDM Server or network. To use the device again, **on-boarding** procedure has to be done.

4.4 Delete Device Information

Users can **only** delete OFFLINE device. The steps for deleting device information are similar to **Delete Building**.



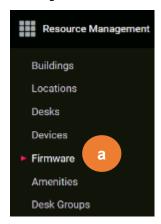
Clearance No.: BRT#179

5. Firmware Management

Through the Firmware Management interface, admin users can upload desk panel device firmware package, and do an auto or manual firmware update Over The Air (OTA) for selected or all devices. Users can also delete firmware. A log history is also available for viewing.

5.1 Add / Upload Firmware Package

a. Click on the **Resource Management** > *Firmware* menu.



b. The Firmware Management interface is displayed. Click [ADD].



c. The Upload Firmware interface is displayed. Click **[Browse]** and select the *firmware package file** to upload. Upon selection, the file attributes are automatically populated in the respective fields.



* indicates that all these fields are mandatory



Clearance No.: BRT#179

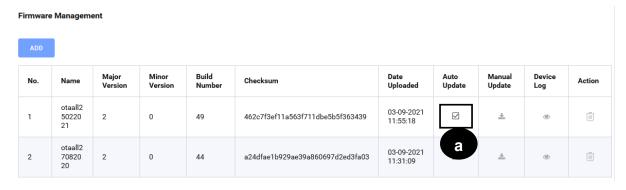
d. The Uploaded Firmware is displayed on the table.

Firmware	irmware Management											
ADD												
No.	Name	Major Version	Minor Version	Build Number	Checksum	Date Uploaded	Auto Update	Manual Update	Device Log	Action		
 ₁ 	otaall2 50220 21	2	0	49 d	462c7f3ef11a563f711dbe5b5f363439	03-09-2021 11:55:18		<u>±</u>	•			
2	otaall2 70820 20	2	0	44	a24dfae1b929ae39a860697d2ed3fa03	03-09-2021 11:31:09		±	•			

5.2 Auto Update

To enable / disable automatic update of firmware -

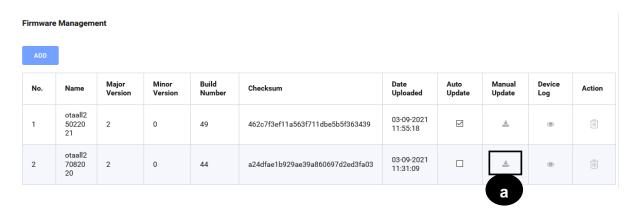
a. From the list of uploaded firmware information displayed on the table, click and select/de-select the **Auto Update** checkbox to enable or disable an automatic firmware update. Upon enabling this function, system will trigger this firmware update automatically for all the desks panel devices which are online at that particular point of time, based on the update schedule specified in the **Configuration > Policy** interface.



5.3 Manual Update

To update firmware manually for devices -

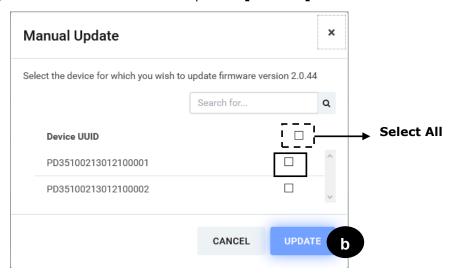
a. From the list of uploaded firmware information displayed on the table, click on the $\stackrel{1}{=}$ icon.





Clearance No.: BRT#179

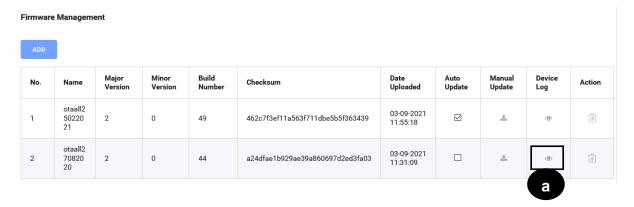
b. Select the checkbox to select the device to update the firmware manually. Alternately, to select all the devices, click on the checkbox on the top. Click **[UPDATE]**.



5.4 View Firmware Update Log

To view firmware update log -

a. From the list of uploaded firmware information displayed on the table, click on the equipment icon.



b. The firmware update log interface is displayed for the selected firmware version showing the device update results.



No.	Device UUID	Status	Date Time		
1	PD35100213012100001	Could not be sent	03-09-2021 14:54:19		

Per Page: 50 V

CLOSE

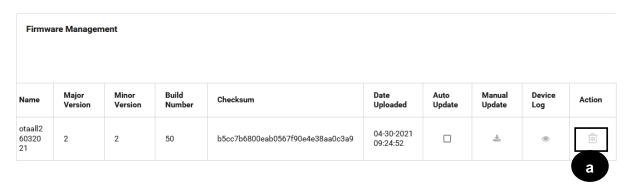


Clearance No.: BRT#179

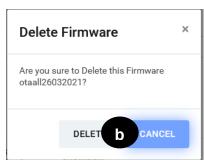
5.5 Delete Firmware

To delete firmware -

a. From the list of uploaded firmware information displayed on the table, click on the ${\color{orange}|}{\color{orange}|}{\color{orange}|}$ icon.



b. A confirmation dialog box is displayed. Click [CONFIRM] to delete the firmware or [CANCEL] to cancel the delete operation.



The data is permanently deleted and will no longer be displayed on the table.



Clearance No.: BRT#179

6. Amenities Management

Through the Amenities Management interface, admin users can add, edit and delete amenities.

6.1 Add Amenities

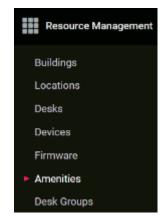
The steps for adding amenities are same as that of Add Building.

6.2 Edit Amenities

The steps for editing amenities are same as that of **Edit Building**.

6.3 Delete Amenities

The steps for deleting amenities are same as that of **Delete Building**.



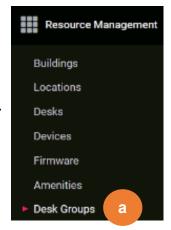
7. Desk Groups

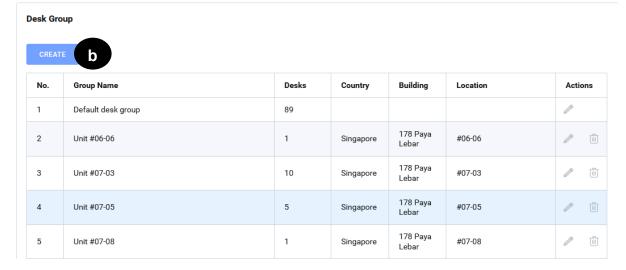
Through the Desk Groups interface, admin users can create desk group, add desks to desk group, assign desk booking policies and amenities to desk group, edit and delete desk group.

7.1 Create Desk Group

To create desk group -

- a. Click **Resource Management** > **Desk Groups** menu.
- b. The Desk Group interface is displayed. Click [CREATE].

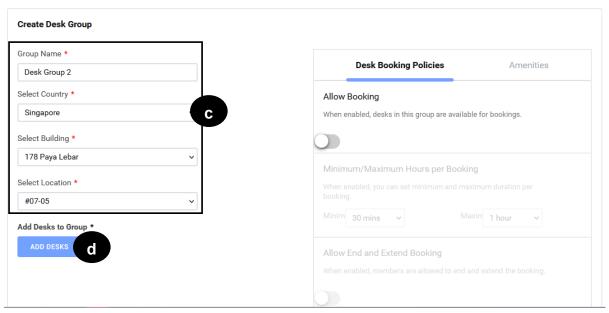




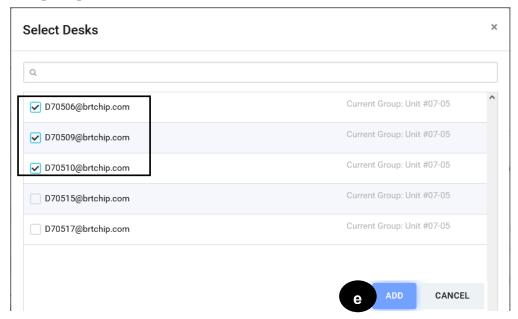


Clearance No.: BRT#179

c. The Create Desk Group interface is displayed. Enter the Desk **Group Name**; Select the **Country** / **Building** and **Location**.



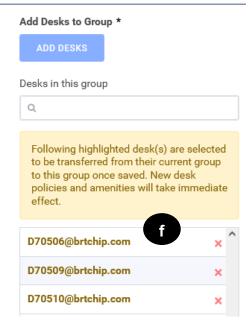
- d. By default the Add Desks function button is disabled. It is enabled only upon selecting a *Country;* Building and Location and the selected location has desks. Click **[ADD DESKS]** to select the desks to add to the group.
- e. The Select Desks interface is displayed with a list of desks. Alternately, desks can be searched using the Search bar. Select the desks by clicking on the checkbox. Upon selecting the desks, click **[ADD]**.



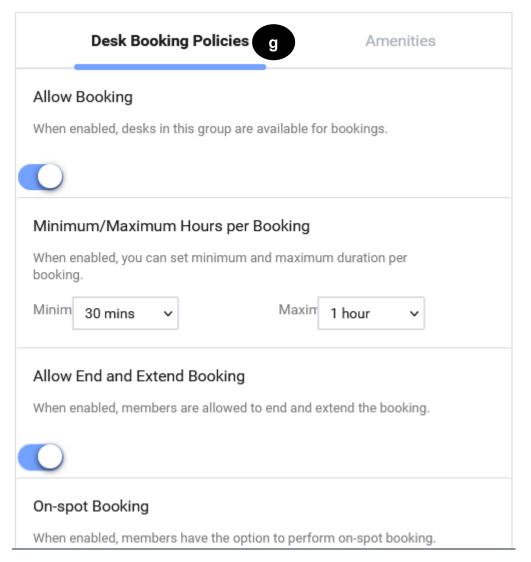
Clearance No.: BRT#179

Version 1.0 Document Reference No.: BRT_000377

The newly added desks are displayed.



g. Assign the relevant **Desk Booking Policies** to the desk group.





Clearance No.: BRT#179

Desk Booking Policies

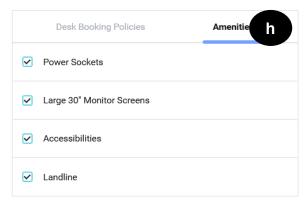
Desk Booking Policy	When enabled	When disabled	Default State
Allow Booking	Desks in this group are available for bookings.	Desks in this group are NOT available for bookings.	Disabled
Min. & Max. Hours per Booking	Used to set the minimum & maximum duration per booking	Cannot set the minimum & maximum duration per booking	Disabled
Allow End & Extend a Booking	Members are allowed to end and extend the booking	Members are NOT allowed to end and extend the booking	Disabled
On-Spot Booking	Members have the option to perform on-spot booking; Members can select/de-select the Enable on-spot booking only checkbox. If the checkbox is selected, then members can only book desk through the device	Members DO NOT have the option to perform on-spot booking	Disabled
Same day Booking	Members are allowed to do ONLY same day bookings	Members cannot do same day booking	Disabled
Advanced Booking	Members have to book in advance no less than "X" hours	Members cannot do advance booking	Disabled
Window Booking	Members can set a window rule in which bookings can be done by setting values for the following fields — • Cannot book in advance no less than "X" Hours • Advance bookings are not allowed to be made beyond "Y" hours	Members are NOT allowed to set a window rule for bookings	Disabled
Recurrent Booking	Members are allowed to make recurrent bookings; Members can select/de-select the Cancel booking series if unclaimed checkbox. If selected, members can define the number of times.	Members are NOT allowed to make recurrent bookings	Disabled
Claim Booking	Members have to claim desks to confirm booking. Unclaimed desks will be released. The Claim Window Start Time Offset & End Time Offset can be set.	Members are not allowed to claim desk to confirm booking.	Disabled

Table 1 - Desk Booking Policies



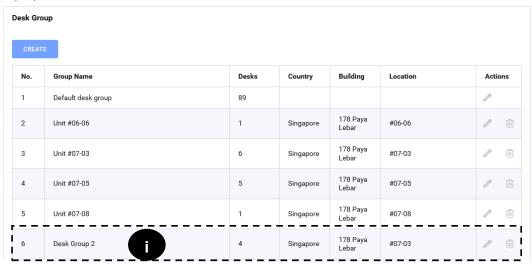
Clearance No.: BRT#179

h. Assign the relevant Amenities (if any) to the desk group.



NOTE: Amenities can be added using the Amenities Management interface.

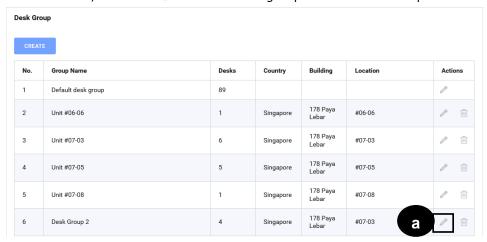
i. Upon adding all the relevant information, click **[SAVE]**. The new desk group is added and displayed in the table.



7.2 Edit Desk Group

To edit desk group -

a. From the table, click **Edit** for the desk group that needs to be updated.





BRT_AN_079 PanL Desk Manager 2.X User Guide

Version 1.0

Document Reference No.: BRT_000377

Clearance No.: BRT#179

The steps for editing the desk group is same as that of creating desk group. Refer to $\frac{\text{Create Desk}}{\text{Group}}$ for more details.

Clearance No.: BRT#179

G. User & Role Management

The User & Role Management interface enables administrators to manage user access to certain functions.

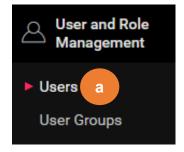
1. User Management

Through the User Management interface, admin users can *Sync user from server* and *edit user information*.

1.1 Sync from Server

To sync user information from server -

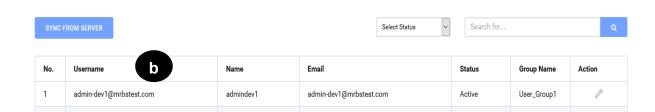
a. Click **User and Role Management** > **Users** menu.



Default user a

Active

b. The User management interface is displayed. Click **[SYNC FROM SERVER]** to update all users from the calendar server to be displayed on the table.



admin-dev12@mrbstest.com

1.2 Edit User Information

admin-dev12@mrbstest.com

User Management

2

The steps for editing user information are same as that of **Edit Building**.

admindev12



Clearance No.: BRT#179

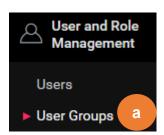
2. User Groups

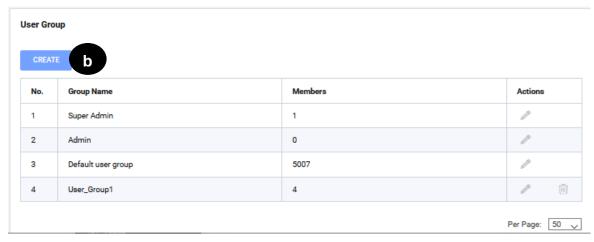
Through the User Groups interface, admin users can *create user group, add users to user group, assign permissions and policies to user group, edit* and *delete* user group.

2.1 Create User Group

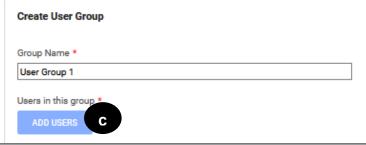
To create user group -

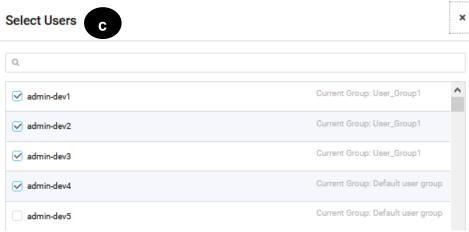
- a. Click User and Role Management > User Groups menu.
- b. The User Group interface is displayed. Click [CREATE].





c. The Create User Group interface is displayed. Enter the *Group Name*. Click [ADD USERS] and select the users to add to the group and click [SAVE].

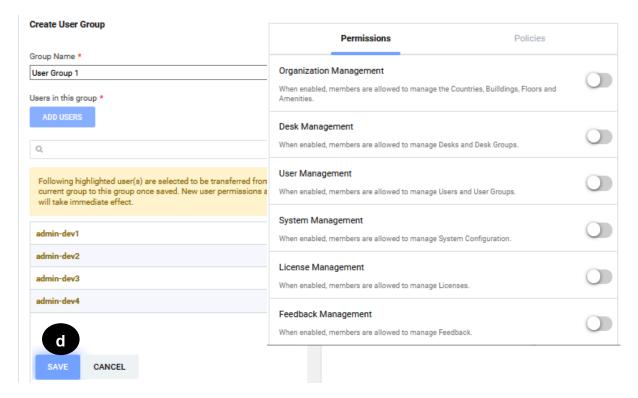






Clearance No.: BRT#179

d. The newly added users are displayed. Assign the relevant <u>Permissions</u> and <u>Policies</u>. Click **[SAVE]**.



User Group Policies

User Group Policies	When enabled	When disabled	Default State
Usage quota	Can limit user booking hours by daily, weekly, monthly	Do not limit user booking hours	Disabled
Booking Hours	Can set user booking hours	Allows booking from 00:00am to 11:59pm in a day	Disabled
Booking Days	Can set booking days in a week	Can set booking activities for all week	Disabled
Bypass resource policies	Members are allowed to bypass desk and user booking policies	Desk and user booking policies will be applied on Members	Disabled

Table 2 - User Group Policies



Clearance No.: BRT#179

User Group Permissions

User Group Permissions	When enabled	When disabled	Default State
Organization Management	Members are allowed to manage the Countries, Buildings, Locations & Amenities	Members are NOT allowed to manage the Countries, Buildings, Locations & Amenities	Disabled
Desk Management	Members are allowed to manage Desks & Desk Groups	Members are NOT allowed to manage Desks & Desk Groups	Disabled
User Management	Members are allowed to manage Users & User Groups	Members are NOT allowed to manage Users & User Groups	Disabled
System Management	Members are allowed to manage System Configuration (which includes System, Policy, Dashboard Settings, Email Template, Import/Export Configuration) & Logs (which includes System Log and User Log)	Members are NOT allowed to manage System Configuration	Disabled
License Management	Members are allowed to manage Licenses	Members are NOT allowed to manage Licenses	Disabled
Feedback Management	Members are allowed to manage Feedback	Members are NOT allowed to manage Feedback	Disabled
Devices Management	Members are allowed to manage Devices	Members are NOT allowed to manage Devices	Disabled
Desk Group Access	Members are allowed to add desk group, view or use the desks in the added desk group	Members will not be able to view any desk on location map for booking activities on Mobile / Add-in	Disabled
Allow Booking	Members are allowed to book desks	Members are NOT allowed to book desks	Disabled

Table 3 - User Group Permissions



Clearance No.: BRT#179

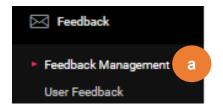
H. Feedback

Users can provide their feedback on the PDM solution via PDM mobile app, outlook add-in or Desk Viewer. Users can either choose a pre-defined feedback set by the admin or type in a customize feedback.

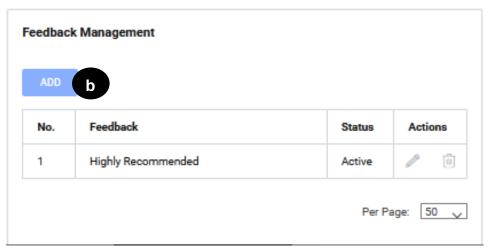
1. Feedback Management

To create pre-defined feedback inputs from users. -

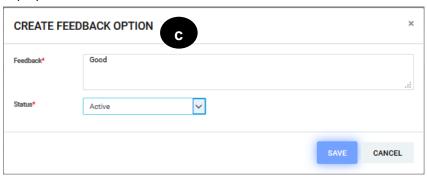
a. Click on the **Feedback** > **Feedback Management** menu.



b. The Feedback management interface is displayed with the list of feedbacks options, if any. Click **[ADD]** to add a new feedback option.



c. Create Feedback option dialog box is displayed. Enter the new *Feedback* option *(mandatory)* and select the *Status* of the feedback – *Active / Inactive*. Click **[SAVE]**. The newly added feedback option is displayed on the table.





Clearance No.: BRT#179

To **edit feedback** option, Click on the icon. The steps for editing is similar to creating feedback option. Update the feedback option as required and click **[SAVE]** to save the changes, if any.

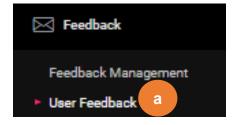
To **delete feedback** option, Click on the icon. Click **[Confirm]** to proceed or **[Cancel]** to discard the delete operation.

2. User Feedback

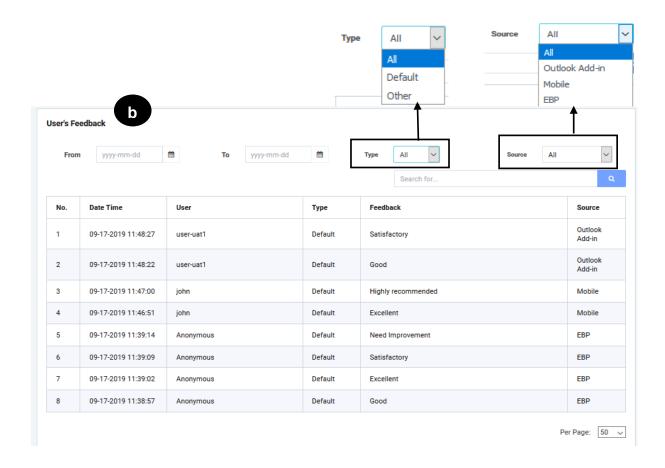
The user's feedback interface displays all of the feedback from users from the various sources.

To view user's feedback -

a. Click on the **Feedback** menu.



b. The User's Feedback interface is displayed. Filter user's feedback accordingly based on a specific date range or Feedback Type or Feedback Source.



Clearance No.: BRT#179

I. Configuration

Different configurations related to dashboard settings, calendar server, desk booking policies and other PDM settings can all be done through this interface.

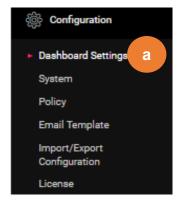
1. Dashboard Settings

Through the Dashboard settings interface, admin users can configure (i.e. *enable / disable*) the access permission (*Edit / View*) for different types of dashboard statistics for a particular user or user group.

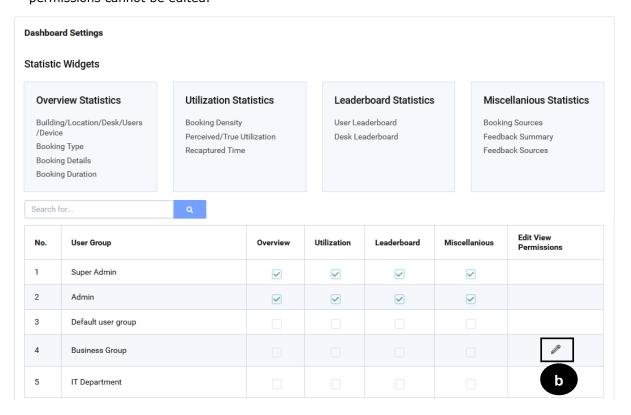
For example, if $User\ Group\ 1$ is allowed to view the utilization statistics in the dashboard interface, then the View permission should have been enabled for $User\ Group\ 1$ in the Dashboard Settings.

To configure dashboard settings -

a. Click **Configuration > Dashboard Settings** menu.



b. The dashboard settings interface is displayed. Click on the icon to edit the permissions against a particular user group. Note that the **Default User Group**, **Admin**, **Super Admin** user permissions cannot be edited.





BRT_AN_079 PanL Desk Manager 2.X User Guide

Version 1.0

Document Reference No.: BRT_000377

Clearance No.: BRT#179

c. Upon providing the relevant permissions (by checking the checkbox), click **[SAVE].** The updated information is available on the table.

No.	User Group	Overview	Utilization	Leaderboard	Miscellanious	Edit View Permissions
1	User Group 1	✓	~			SAVE CANCEL
2	Default user group					С
3	Admin	✓	✓	~	~	
4	Super Admin	∀	∀	✓	✓	

2. System Configuration

To update calendar server and PDM server settings refer to the steps provided under the topic **Update System Configuration**.



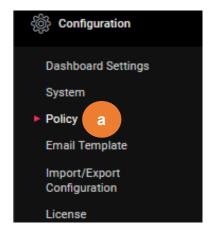
Clearance No.: BRT#179

3. Policy Settings

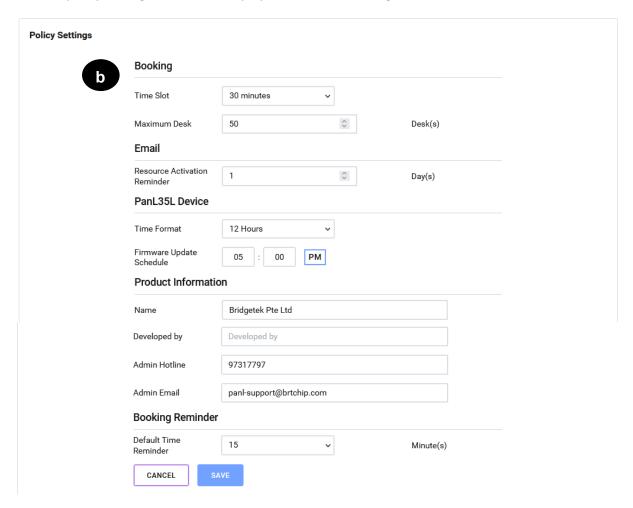
3.1 Update Policy Settings

To update policy settings -

a. Click on the **Configuration** > **Policy** menu.



b. The policy settings interface is displayed with the following information -



BRT_AN_079 PanL Desk Manager 2.X User Guide

Version 1.0

Document Reference No.: BRT_000377

Clearance No.: BRT#179

Booking

- Time Slot Set the Default Time Slot duration for every desk booking. The available durations are 30 minutes and 1 hour. However, the booking duration can be prolonged if required. If **advance booking** is done, the booking time will start from the next 30minutes/1 hour interval. For example, if the time is 6.05pm, a new booking will start from 6.30pm. For **on spot desk booking**, the booking time will start immediately i.e. 6.05pm.
- Maximum Desk Set the Maximum number of desk(s) that can be selected for booking at a time by the user.

<u>Email</u>

• Re-active Reminder: This is to set the time where an email reminder will be sent to the admin email id when a resource (Building/Location/Desk) should be re-activated based on the available date set. For example, if the reminder is set as 1 day and a resource available date is on the 30th Oct 2020, an email reminder will be sent to the admin on the 29th Oct 2020.

PanL35L Device

- *Time Format:* This refers to the format in which the time will be displayed. I.e. 12 Hours or 24 Hours format.
- Firmware Update Schedule: This refers to the desk panel device firmware update schedule. If firmware auto update is selected, the desk panel if it's online will be updated automatically with the latest firmware uploaded at the set time.

Note: Firmware can only be upgraded and cannot be downgraded.

Product Information

• Product Name/Developed by/Admin Hotline/Admin Email: This information will be displayed in the About section in the mobile app/Outlook Add-In as a support channel for the users.

Reminder

 Default Time Reminder – This field refers to the timeframe at which the booking notification reminder will be sent to the user. For example, if the Default Time Reminder is set to 5 minutes, user will be notified 5 minutes before the start of the booking through Outlook Add-In and Mobile app.

Upon configuring the policy settings, click **[SAVE]** to store the changes.



Clearance No.: BRT#179

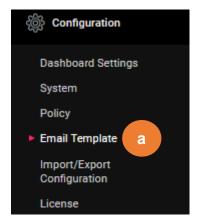
4. Email Template

Email notifications are sent on behalf of admin to the relevant users automatically upon different booking events such as a new desk booking or cancellations. Admin users are able to add or edit existing standard email templates which are defined for various events. There are also console configuration related emails which are sent to the admin user email set under Configuration>System for events such as building/location/desk activation status and other system related events.

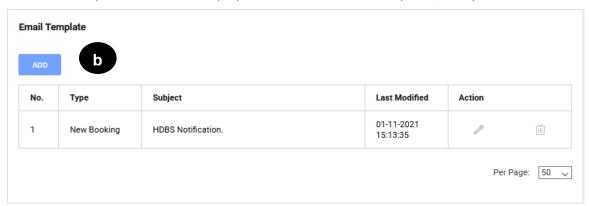
4.1 Add Email Template

To add email template -

a. Click on the **Configuration** > **Email Template** menu.

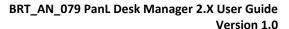


b. The Email template interface is displayed with a list of email templates, if any.



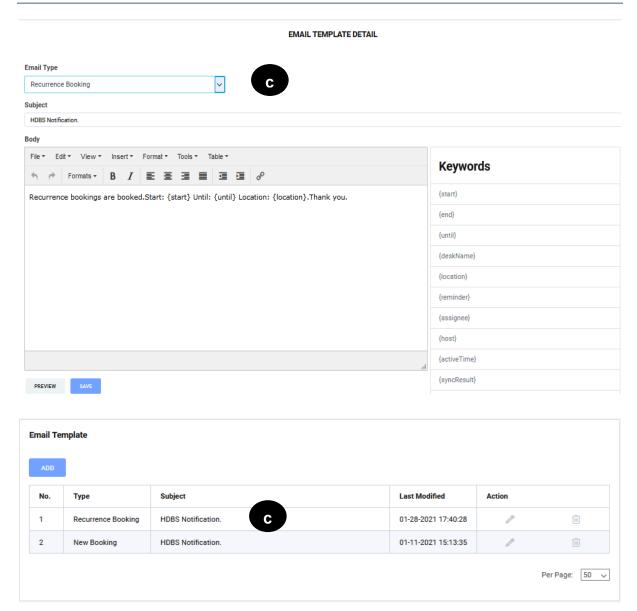
- c. Click [ADD]. The Email template details interface is displayed. Input the following details -
- Select Email Type
- Based on the selected email type, the default *Email Subject* is displayed. Users may edit the email subject as required.
- Draft and format the email *Body* content with the inbuilt functions. Function keywords are also provided to import useful system data/strings into the email content.

Upon creating the template, click **[PREVIEW]** to preview the email template or click **[SAVE]** to save the email template. The newly added email template is displayed on the table.





Clearance No.: BRT#179



<u>NOTE:</u> If no email template is setup to signify a certain event, then the email will be sent with the default content to the user/admin when the event occurs.

4.2 Edit / Delete Email Template

To edit / delete email template -

a. From the Email template interface, click on the icon. Edit the template as required and click [SAVE]. Alternately, click on the icon and confirm to delete email template.







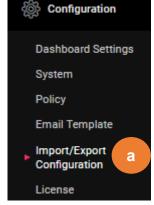
Clearance No.: BRT#179

5. Import / Export Configuration

This interface allows admin users to import previously configured PDM console configurations or export current configurations useful in the event of a new PDM server installation or PDM Server software update. All the data, except for the Dashboard data will be imported from the backup file. The Dashboard data will be empty.

To import (restore) system configuration -

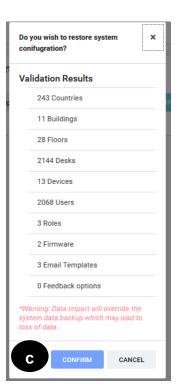
 a. Click on the Configuration > Import / Export Configuration menu.



b. The Import-Export (Configuration) interface is displayed. Click **[IMPORT]** and select the backup file that was previously exported.



c. A confirmation window with a list of pre-defined PDM Console configuration backup information is displayed. Click [CONFIRM] to proceed with the import operation or click [CANCEL] to discard the import operation. Upon successful import, an appropriate message indicating the same is displayed.



6. License

To generate license, refer to the steps provided under the topic **Generate License**.

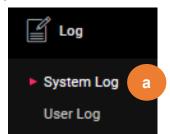
Clearance No.: BRT#179

J. Log

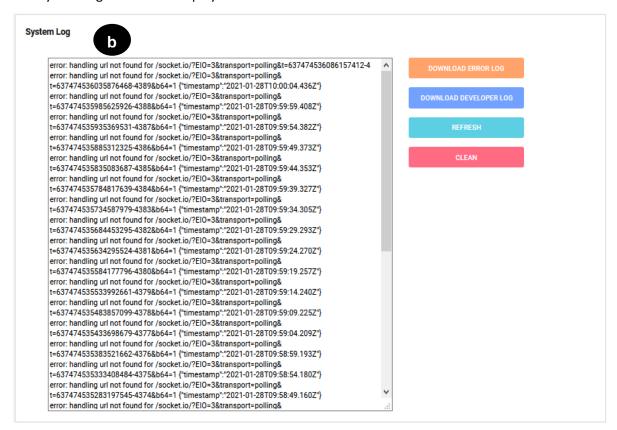
1. System Log

To view the system log for system analysis purposes-

a. Click on the **Log** > **System Log** menu.



b. The System log interface is displayed.



[DOWNLOAD ERROR LOG]
[DOWNLOAD DEVELOPER LOG]
[REFRESH]
[CLEAN]

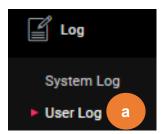
Click to download the error log Click to download the developer log Click to refresh the system log Click to clean the system log

Clearance No.: BRT#179

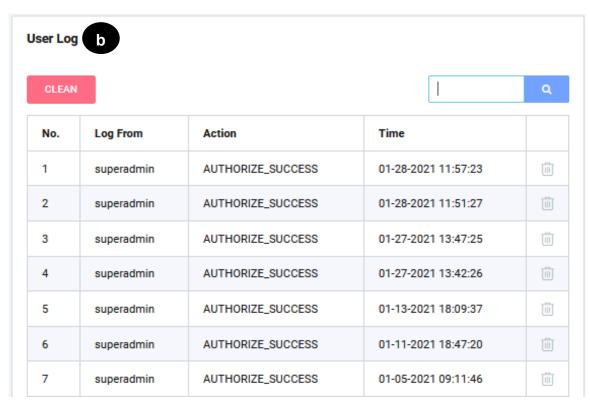
2. User Log

To view the User log for user analysis purposes-

a. Click on the **Log** > **User Log** menu.



b. The User log interface is displayed. It will display the corresponding action to be taken by the user.



To search for a specific action details, enter the action in the search box and click on the icon.

To clean the user log, click [CLEAN].

To delete a user log, click on the **Delete** $\overline{\mathbb{II}}$ icon from the table

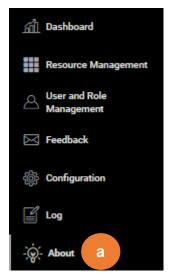


Clearance No.: BRT#179

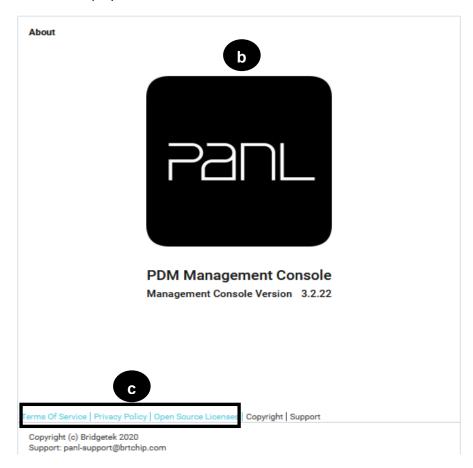
K. About

The About interface displays information related to PDM Management Console's version, Copyright, PanL Support etc.

a. Click on the About menu.



b. The About interface is displayed.



c. Click on **Terms of Services / Privacy Policy / Open Sources Licenses** to view the respective details.

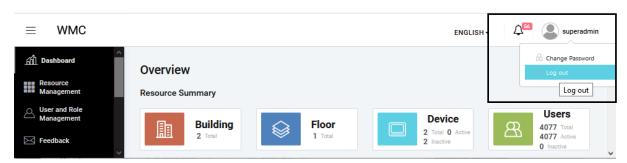


Clearance No.: BRT#179

L. Log Out

To log out of PDM Console,

Click on the icon. From the resulting menu, click [Log out].





Clearance No.: BRT#179

M. Desk Viewer GUI Overview

In order to access and use the Desk Viewer ensure that the PDM Software Server and PDM Console Configurations are up and running.

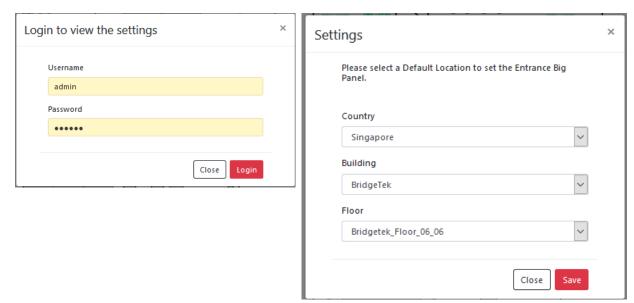
The following steps will guide you through in accessing the Desk Viewer interface -

1. Open any of the supported web browser (*Chrome / Mozilla Firefox / Safari*) and enter the URL https://app.corganization's domain name/ebp, for example https://app.brtchip.com/ebp.

The default building and location layout will be displayed if configured previously.



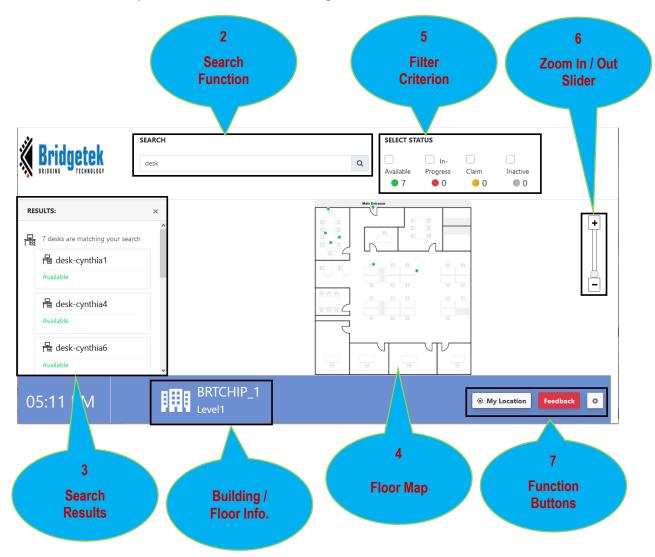
2. Tap on the icon (**Settings**) to log in and view and edit the Desk Viewer settings. Tap and enter the superadmin *Username* and *Password*. Tap on [**Login**]. In the Settings interface, the admin user can select the *Default location (Country/Building/Location)* where if the [**My Location**] button is pressed, it will bring up the default location map. Tap on [**Save**].



Version 1.0 Document Reference No.: BRT_000377

Clearance No.: BRT#179

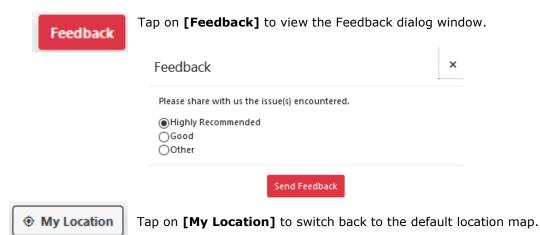
- 3. Enter the search criteria in the search box (for example Desk Name or User Name or Location Name created under the Building) and tap on the search icon.
- 4. A list of desk or location id(s) (based on the search criteria) based on the keyword entered is displayed
- 5. Tap on any of the search results and the respective location map will be displayed.
- 6. You may filter desks on the map based on any or all of the following criteria
 - o Available Desks which are available for immediate booking
 - o In-Progress Desks which are currently booked
 - o Claim Desks which are awaiting user claim and may be potentially released if unclaimed
 - o Desks Inactive Desks which are set as inactive by the admin user.
- 7. The location map can be zoomed in or out using the bar *slider*.

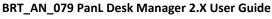




Clearance No.: BRT#179

8. You can make use of the following buttons to perform the respective functions -







Clearance No.: BRT#179



Outlook Add-In



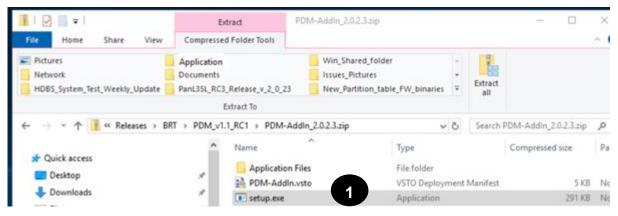
Clearance No.: BRT#179

VI. Getting Started with Outlook Add-In

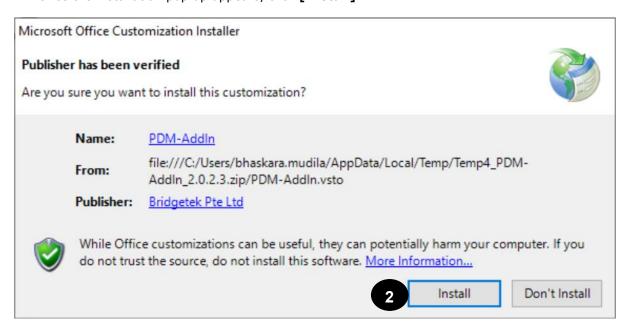
A.Installing Outlook Add-In

The Microsoft Outlook Add-In provides an alternative option for users to view and book desk(s) from the calendar aside from the mobile app.

1. Extract or unzip the *PDM- Add-In package file* provided and execute the .exe file. Ensure that .net framework v4.6.6 or newer is preinstalled.



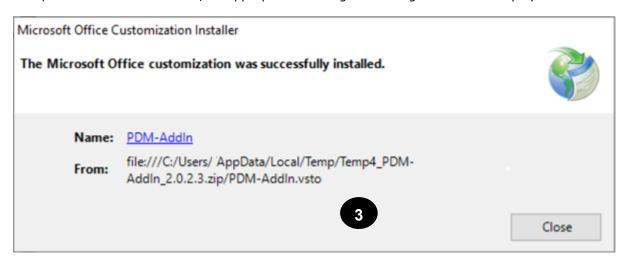
2. Once the installation pop up appears, click [Install].





Clearance No.: BRT#179

3. Upon successful installation, an appropriate message indicating the same is displayed.



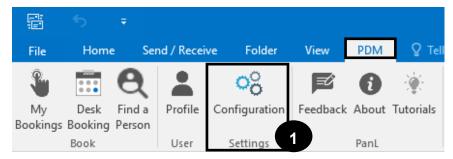
4. Restart Microsoft Outlook in order for the add-in to take effect.

B.Configure Outlook Add-In

Using a valid MS-Outlook email account, log in to Outlook calendar, the Add-In should appear as a tab on the top bar.

To configure the Add-In Settings -

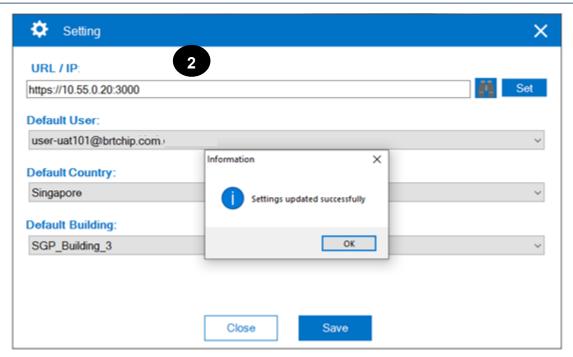
1. From the top bar menu, click **PDM > Configuration**.



- 2. Add/update the following information, as required -
 - URL/IP (either PDM Server URL name or IP address) Enter the URL/IP manually (if the Outlook client PC is not part of a local PDM network) or click on the **Discover** Button to detect the PDM Server URL/IP automatically.
 - Default User Name Select the *Default User Email ID* and click **[Set]** to ensure that the Email ID exist in the calendar configured to the PDM Server. An appropriate message indicating if the settings was configured successfully or not is displayed.
 - o Default Country Select the default country in which a desk is booked.
 - o Default Building Select the default building in which a desk is booked.
 - Upon adding/updating the settings, click on [Save].



Clearance No.: BRT#179



An appropriate message indicating if the settings were updated successfully or not is displayed.

Clearance No.: BRT#179

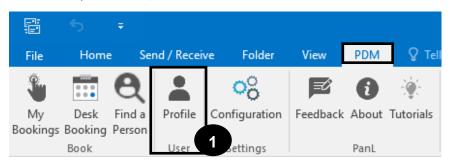
C.Profile

Bridgetek

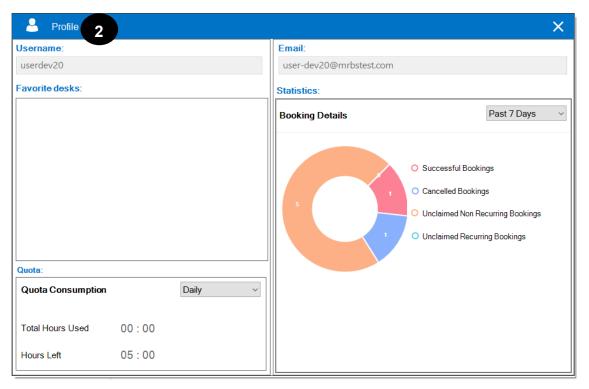
The Profile interface displays the user profile and booking statistics pertaining to the user.

To access User Profile -

1. From the top bar menu, click **PDM > Profile**.



2. The User Profile interface is displayed. This interface provides the details of the logged in user - Username, Favourite Desks, if any, User's Email Address and Booking Statistics (such as Top Desk Booking – By Week/By Month/By Year/All and a pictorial representation of the statistical data.



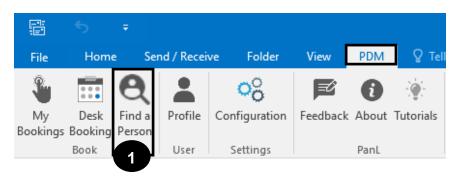
Clearance No.: BRT#179

D. Find a Person

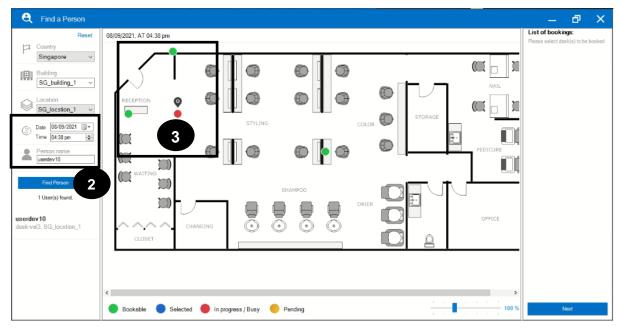
This interface is used to find a person and book available desks near to that person.

To find a person -

1. From the top bar menu, click **PDM > Find a Person**.



2. Find a Person interface is displayed. Input the following fields – *Date, Time* and *Person Name*. Click **[Find Person]**. If the search is successful an appropriate message is displayed.



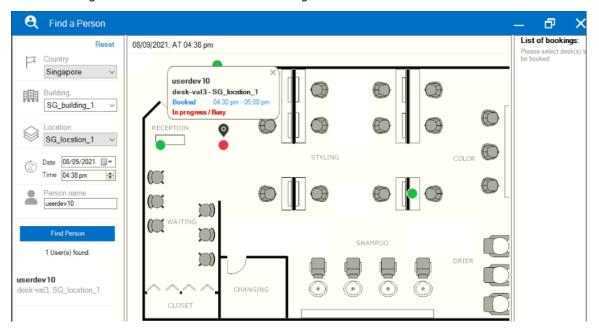
- 3. The person's location along with the nearby bookable desks (if any) are displayed.
- 4. Tap on the location icon to view the details (i.e. person name, desk name, location info, desk booking status and booking time).





Clearance No.: BRT#179

5. Tap on the bookable desks (indicated in GREEN) located near the person to proceed with the desk booking. Refer to for the different booking status of desk.



Clearance No.: BRT#179

E. Desk Booking

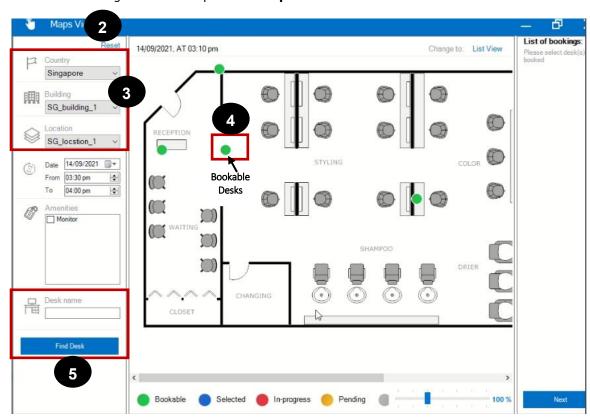
The Desk Booking interface is used for booking desk(s). Users can book desk(s) either in **Maps View** or **List View**. By default the desk booking interface is opened in Maps View. Users may switch between Maps View and List View depending on their requirement.

To access desk booking interface -

1. From the top bar menu, click **PDM > Desk Booking**.



2. The desk booking interface is opened in Maps View.



- 3. The pre-configured Country, Building and Location are displayed on the left panel.
- 4. A list of bookable desk(s) if any, indicated in GREEN are displayed. Refer to for the different status of Desk.
- 5. To search for all the desks, click **[Find Desk]** button. Alternately, users may search for a specific desk by keying in the *Desk Name* and clicking the **[Find Desk]** button.



Clearance No.: BRT#179

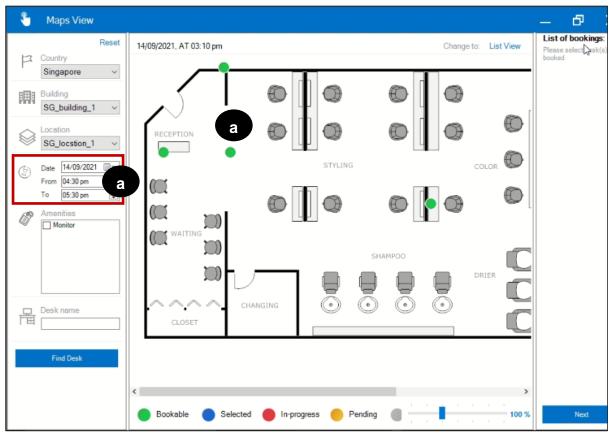
Desk Status	Indicated By	Color	
Bookable Desk		Green	
Selected Desk		Blue	
Booking In- Progress		Red	
Booking Pending for Claim		Orange	
Inactive Desk		Grey	

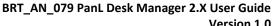
Table 4 - Desk Status

1. Booking Desk using Maps View

To book desk using Maps View -

a. Select the booking *Date* and *Time*. Select one or more bookable desk(s). The bookable desks are indicated in GREEN. Click **[Next]**.

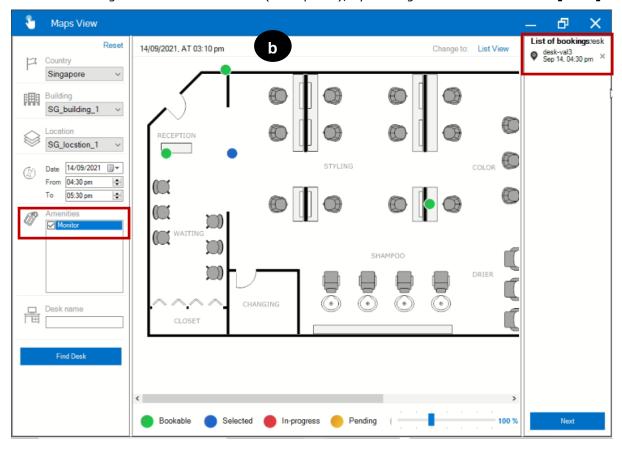




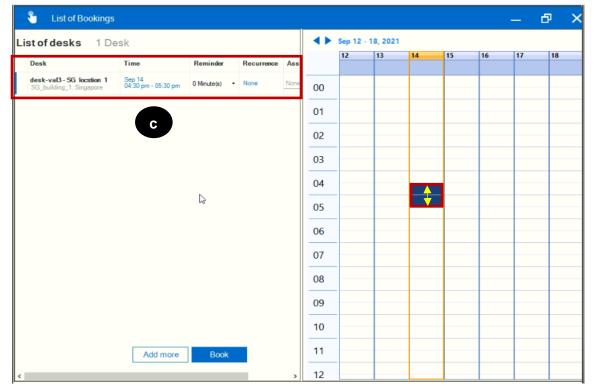


Clearance No.: BRT#179

b. The selected desk(s) are indicated in BLUE. The selected desk(s) are also displayed under the List of bookings. Select the *amenities* (as required), by clicking on the checkbox. Click [Next].



c. The following booking related attributes are displayed. Change the attributes as required -

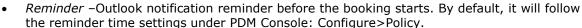


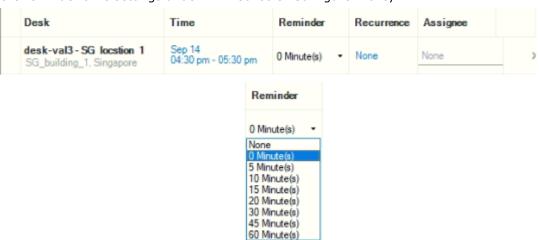
Bridgetek



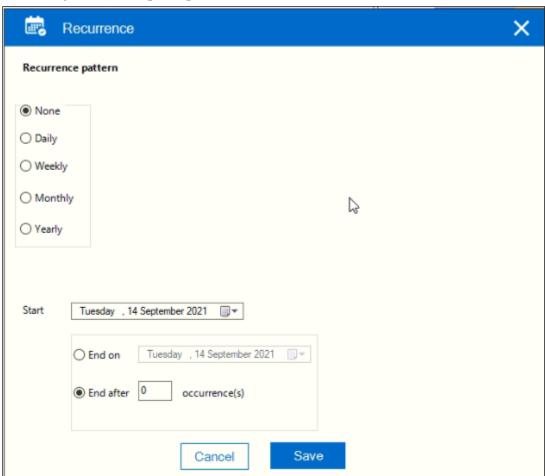
Clearance No.: BRT#179

• Time – Set the desk booking start time and end time by clicking on the Set Time. To change the start time / end time, drag the edge of the time slot on the calendar window as shown above. A greyed out slot will indicate that the desk is already booked by another user.





• Recurrence – Set the booking recurrence pattern (None/Daily/Weekly/Monthly/Yearly). Refer to for more details about the recurrence patterns. Upon selecting the preferred recurrent pattern, click [Save].





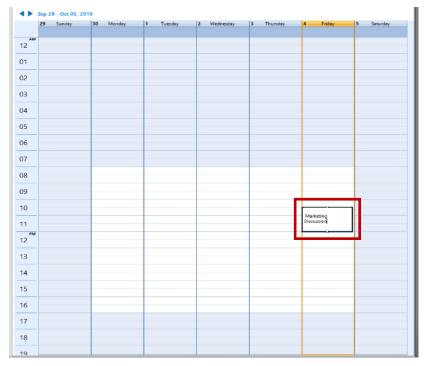


Clearance No.: BRT#179

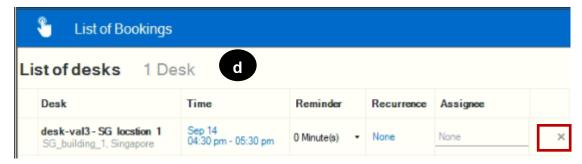
Assignee - If desk(s) is booked on behalf of another user, click on the Assignee field and enter his/her Username/Email ID.



Note - To add a note to the booking, click on the booking slot in the calendar window and type as required.



d. Click [Add More] if you wish to add more desks or click X to remove a desk booking.



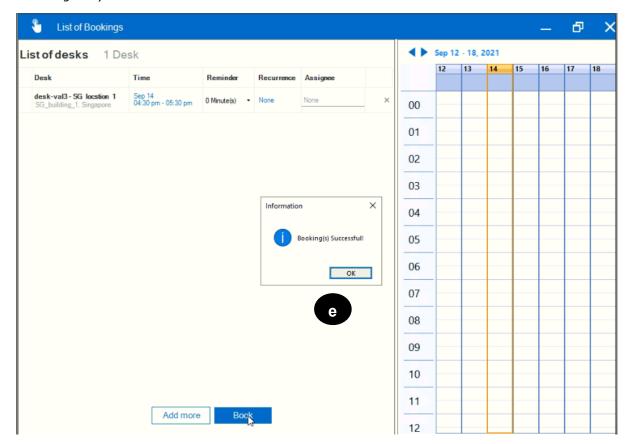
Bridgetek



Version 1.0 Document Reference No.: BRT_000377

Clearance No.: BRT#179

e. Upon adding/updating the booking related attributes, click **[Book]**. An appropriate message indicating whether the booking is successful or not is displayed. An email will be sent to the booking recipient(s) notifying that the desk(s) booking is complete (provided email template is configured)



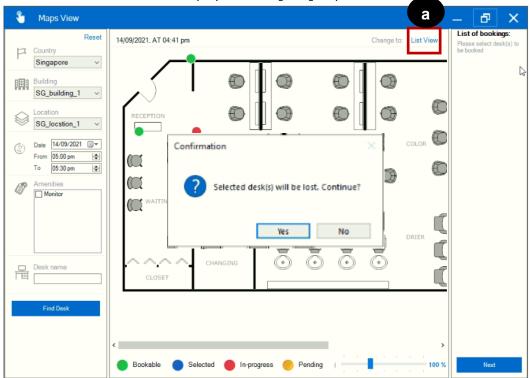


Clearance No.: BRT#179

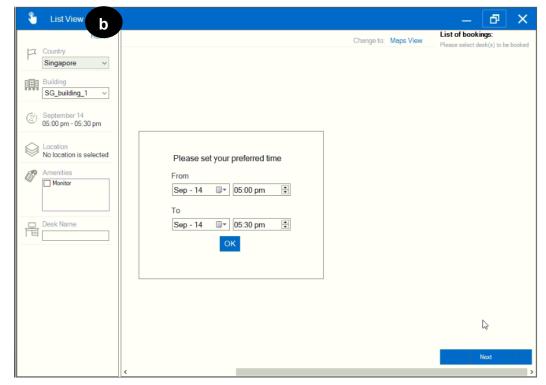
2. Booking Desk using List View

To book desk using List View -

a. By default, the desk booking interface opens in Maps View. Change to **List View** by clicking the link. A confirmation window is displayed. Click **[Yes]** to proceed.

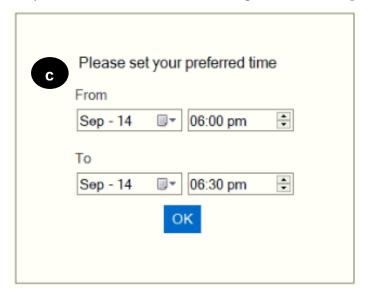


b. Desk booking interface switches to List View.

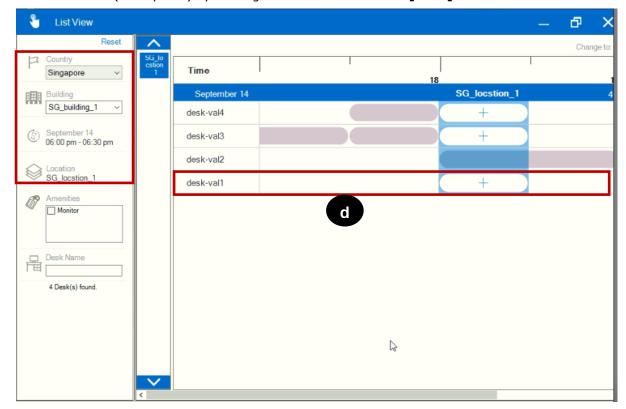


Clearance No.: BRT#179

c. Click and select the *preferred date* and *time* for booking the desk. Click **[OK]**.



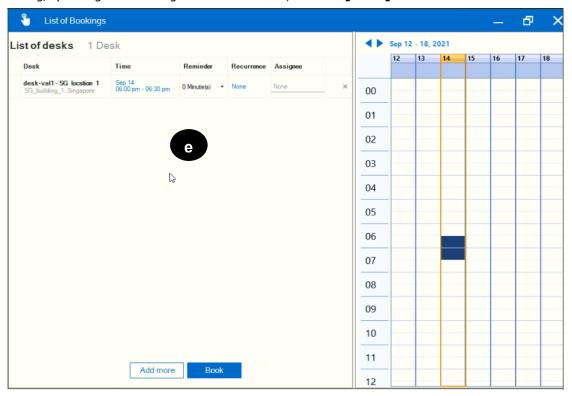
d. A list of desk(s) available in the selected location are displayed. Desk(s) which are not available for the required time slot will be greyed out. Tap on + to add desk(s) for booking. The selected desk(s) along with the preferred date and time are displayed under the *List of Bookings*. Select the amenities (as required) by clicking the check box. Click on **[Next]**.



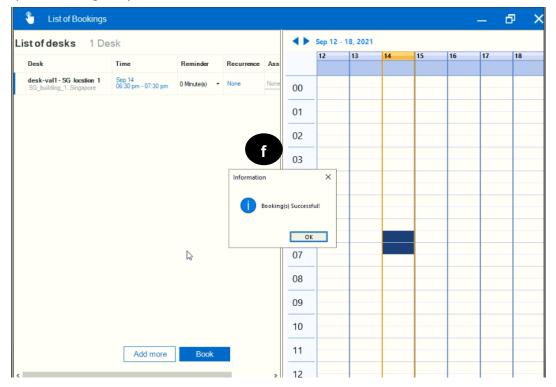


Clearance No.: BRT#179

e. The booking related attributes are displayed. You may change the attributes, as required. Refer to **Booking Desk using Maps View** for the details pertaining to setting booking attributes. Click on **[Add More]** if you wish to add more desks or click **X** to remove a booking. Upon adding/updating the booking related attributes, click on **[Book]**.



f. An appropriate message indicating whether the booking is successful or not is displayed. Email will be sent to the booking recipient(s) notifying that the desk(s) booking is done (provided email template is configured).





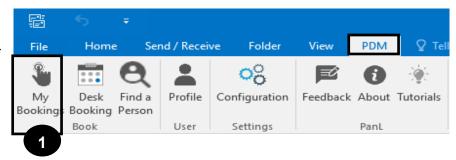
Clearance No.: BRT#179

3. Other Booking Functions

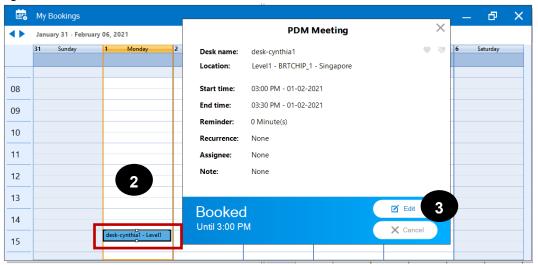
3.1 View and Edit Booking

To edit booking details –

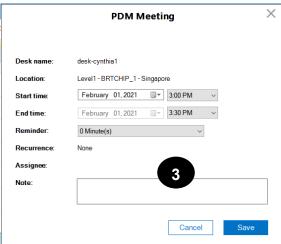
a. From the top bar menu, click PDM > My Bookings.



b. The booking summary is displayed in the calendar window. You will be only able to edit the booking that are in "Booked" status (time slot indicated in Blue color). Double click on the booking.



c. The booking details are displayed. Click [Edit]. Edit the booking details as required and click [Save] to update the changes, if any. An appropriate messaged indicating whether the update was successful or not is displayed. An Email will be sent to the booking recipient(s) notifying of the changes (provided email template is configured)



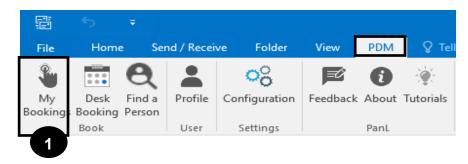


Clearance No.: BRT#179

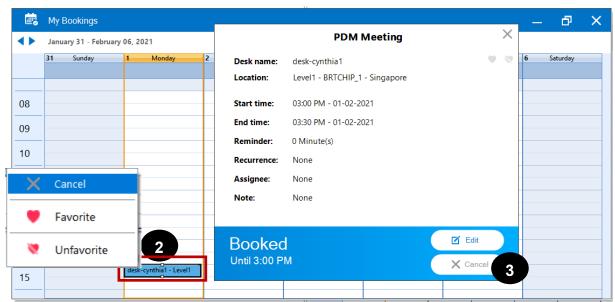
3.2 Cancel Booking

To cancel booking -

a. From the top bar menu, click **PDM > My Bookings**.



b. The booking summary is displayed in the calendar window. Right click and select "Cancel" or double click on a booking.



c. The booking details are displayed. Click [Cancel]. A confirmation message is displayed. Click [Yes] to cancel the booking or [No] to retain the booking. Upon selecting [Yes], an appropriate message indicating whether the cancellation of booking was successful or not is displayed. An Email will be sent to the booking recipient(s) notifying of the cancellation (provided email template is configured)

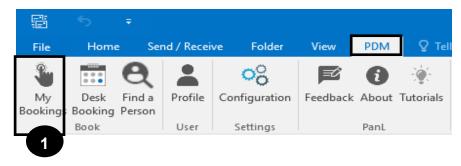


Clearance No.: BRT#179

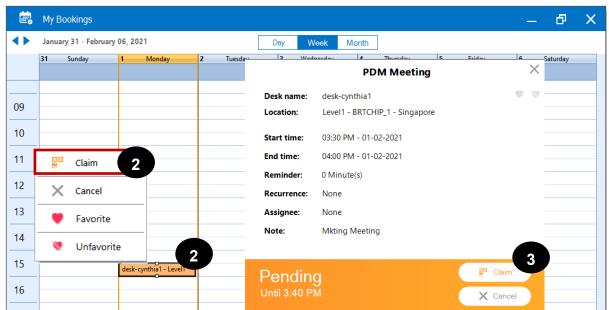
3.3 Claim Booking

To claim booking -

a. From the top bar menu, click **PDM > My Bookings**.



b. The booking summary is displayed in the calendar window. Right click and select "Claim" or double click on the booking that is "Pending" for Claim (timeslot indicated in Yellow Color).



c. The booking details are displayed. Click **[Claim]**. A confirmation message is displayed. Click **[Yes]** to claim the booking or **[No]** to discard claim process. Upon selecting [Yes], an appropriate message indicating whether the claim was successful or not is displayed. An Email will be sent to the booking recipient(s) notifying of the claim (provided email template is configured).

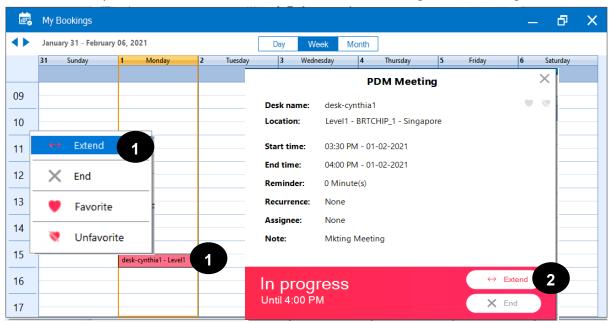
Version 1.0
Document Reference No.: BRT_000377

Clearance No.: BRT#179

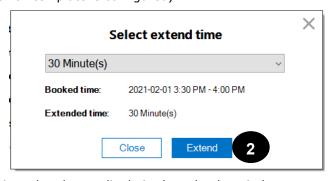
3.4 Extend Booking

To extend booking -

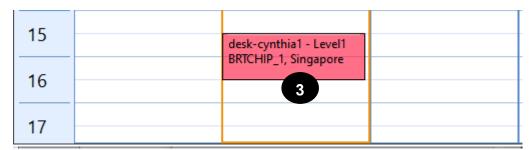
a. From the My booking interface, Right click on the booking that is "*İn-Progress"*(timeslot indicated in Red Color) and select "**Extend"** or double click on the booking that is "*In-Progress"*.



b. The booking details are displayed. Click on **[Extend]**. Select the time to extend the booking. Click **[Extend]**. An appropriate message indicating whether the booking was successfully extended or not is displayed. An Email will be sent to the booking recipient(s) notifying of the extension (provided email template is configured).



c. The booking timeslot is updated accordingly in the calendar window.



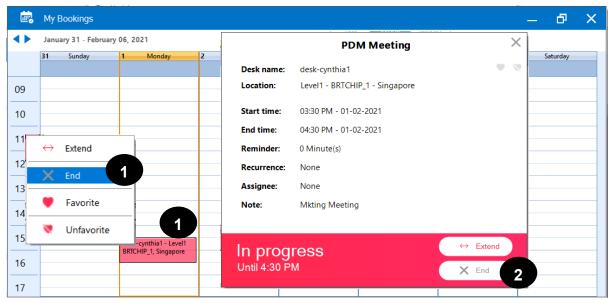


Clearance No.: BRT#179

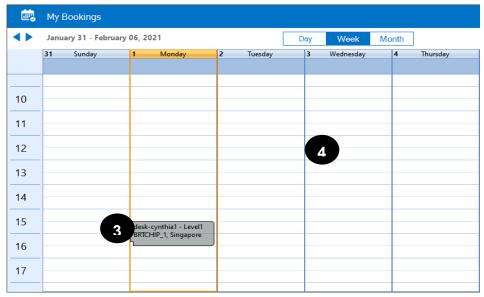
3.5 End Booking

To end booking -

a. From My booking interface – calendar view, right click on the booking that is "*In-Progress"* (timeslot indicated in Red Color) and select "**End"** or double click on the booking that is "*In-Progress"*.



- b. The booking details are displayed. Click **[End]**. A confirmation message is displayed. Click **[Yes]** to end the booking or **[No]** to discard the operation. Upon selecting **[Yes]**, an appropriate message indicating whether the booking was ended successfully or not is displayed. An Email will be sent to the booking recipient(s) notifying of the booking ended(provided email template is configured)
- c. The booking timeslot is updated accordingly in the calendar window (timeslot indicated in grey color)



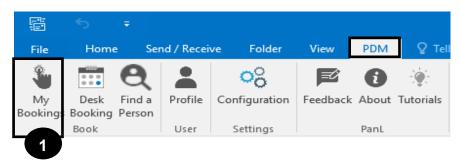
d. To do a re-booking, right click on the booking summary and select **"Book Again"**. Go through the booking procedure as provided under the section **Desk Booking**.

Clearance No.: BRT#179

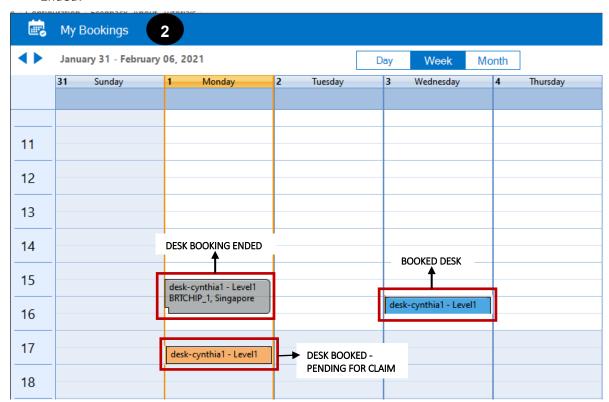
F. My Bookings

The My Bookings interface displays the list of desks booked by the user. To view the list of bookings,

1. From the Add Ins menu, click **PDM > My Bookings**.



2. The list of bookings, if any, are displayed in the calendar view. Double click on the booking to view the details of the booking. Blue – Booked, Orange - Pending Claim, Red - In Progress, Grey – Ended.





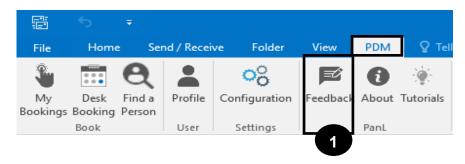
Clearance No.: BRT#179

G.Feedback

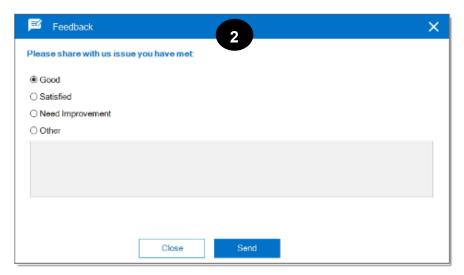
The Feedback interface allows users to send feedback about PanL Desk Manager (PDM) solution to the admin user.

To send feedback -

1. From the top bar menu, click **PDM > Feedback**.



2. The Feedback interface is displayed with a set of pre-defined feedback options (preset in the PDM console under Feedback Management by the admin). Click and choose any of the option. If the option *Other* is chosen, then user may type in a customized feedback. Upon providing the feedback, click [Send]. An appropriate message indicating whether the message was sent successfully or not is displayed.

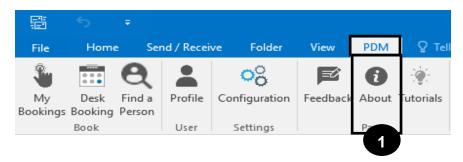


Clearance No.: BRT#179

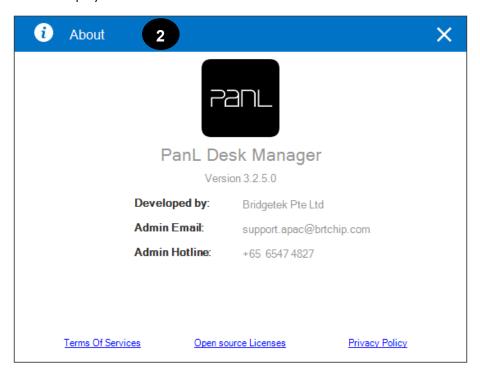
H.About

The About interface displays the Outlook Add-In Version, Product developer as well as the organization admin contact and email as a support channel for the users.

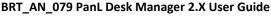
1. From the top bar menu, click **PDM > About**.



2. An example of the PanL Desk Manager (PDM) Version info, Organization and Product developer information is displayed in the About interface.



Refer to the section <u>Getting Started with PDM Console > Configuration > Policy Settings</u> for adding the product information.





Clearance No.: BRT#179



Mobile App for Android / iOS Users





Clearance No.: BRT#179

VII. PanL Desk Manager Mobile App for Android Users

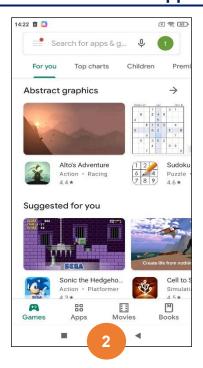
A. Hardware / Software Requirements

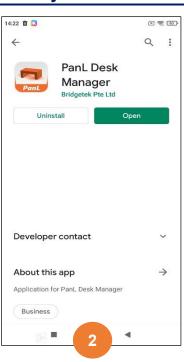
Operating System	Technical Requirement	
Android	Android devices with Android 7+	

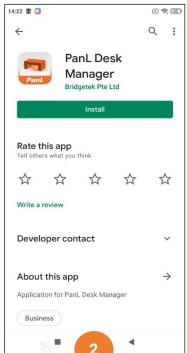
B.Download / Installation of PDM Mobile App from Play Store

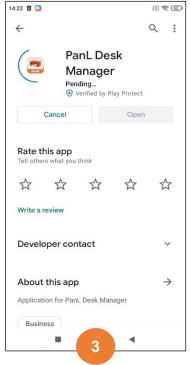


Bridgetek













BRT_AN_079 PanL Desk Manager 2.X User Guide

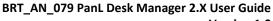
Version 1.0

Document Reference No.: BRT_000377

Clearance No.: BRT#179

The PDM Mobile App can be downloaded from the Google Play Store using the following steps -

- 1. On the Android Phone, tap on **[Play Store]** icon.
- 2. The Play Store page is displayed. Enter "PanL Desk Manager" in the search field. The app page is displayed. Tap on **[Install]** to start the downloading/ installation of the app.
- 3. Upon successful installation, tap on **[Open]** to access the PanL Desk Manager (PDM) App. A shortcut is created and displayed.



Version 1.0

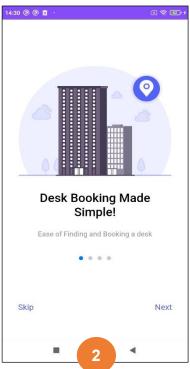
Document Reference No.: BRT_000377

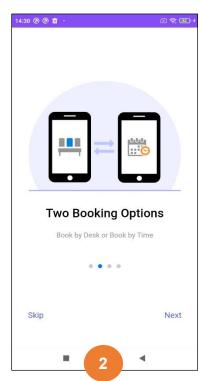
Clearance No.: BRT#179

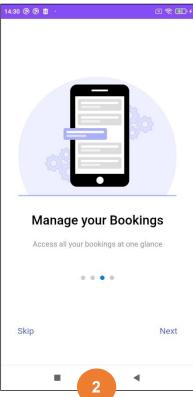
C.Starting the PDM Mobile App

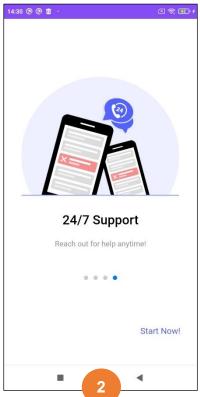
Bridgetek

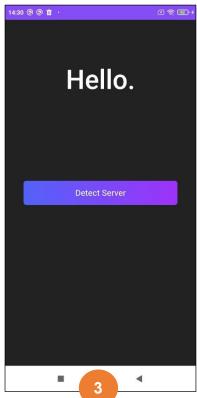








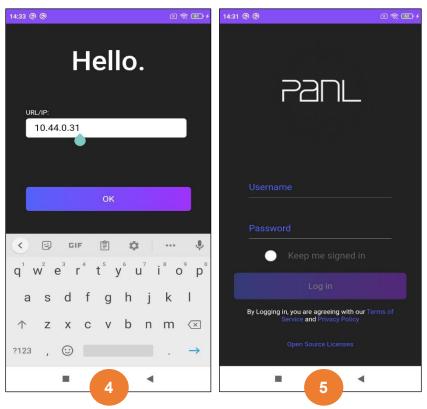






Clearance No.: BRT#179





Upon installing the PDM Mobile App on the mobile device, invoke the PDM app using the steps given below -

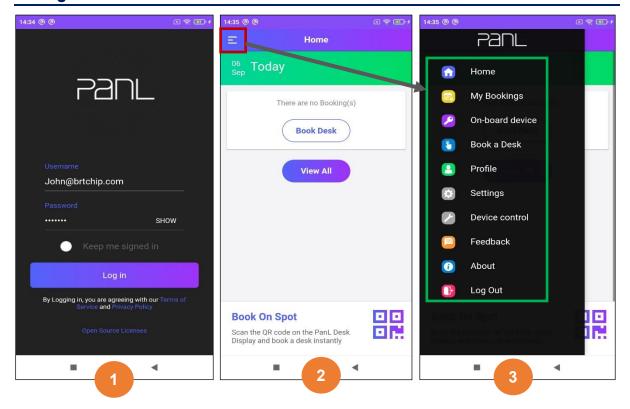
- 1. Tap on the PDM application
- icon.
- 2. A set of Introduction screens are shown. Tap on [Next] to go through the introduction or tap on [Skip] to skip the introduction.
- 3. A "Hello" interface is displayed. Tap on [Detect Server] to automatically detect and connect to a PDM server.
- 4. For a local host/DNS setup, the mobile device Wi-Fi should be connected to the same local server network for automatic PDM server detection. If it's a global DNS setup, enter the PDM Server URL/IP manually.
- 5. Upon successfully detecting and connecting to a PDM server, the login page is displayed.



Clearance No.: BRT#179

D.Log in

Bridgetek

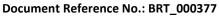


To log in to the PDM Mobile app,

- 1. Enter the Username and Password as provided by the organization. Tap on [Login].
- 2. If the logging in is successful, the PanL Desk Manager home screen is displayed. Alternately, if the logging in fails, an appropriate message indicating the same is displayed. Try logging in again.

Upon successfully logging in, tap on the menu

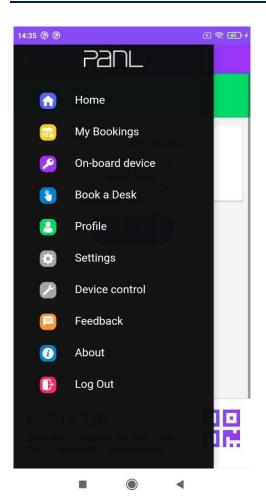
3. A list of functions that a user can perform is displayed as part of the menu.



Clearance No.: BRT#179

E. Menu Overview

Bridgetek

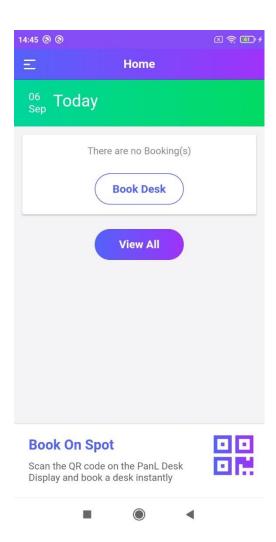


To access the app home screen Home My Bookings To view the list of bookings made On-board To perform desk panel device ondevice* boarding Book a Desk To book a desk **Profile** To view user profile and booking statistics Settings To configure related mobile settings Device To control desk panel device control* attributes **Feedback** To send user feedback **About** To view PDM mobile app version information and support contact Logout To logout from the mobile app The * indicates that these menu functions are available for ONLY USERS WITH DEVICE **MANAGEMENT PERMISSION.**



Clearance No.: BRT#179

F. Home

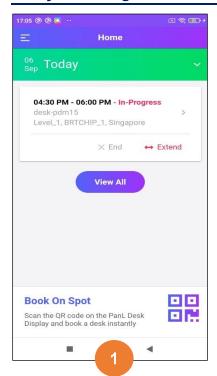


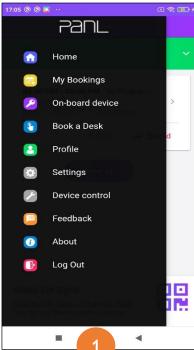
- 1. Upon user login, by default the Home screen is displayed. However, users can also access the home screen, by tapping on the menu icon and from the resulting menu, tap on **Home**.
- 2. Tap on [Book a Desk] to book a desk. Refer to the topic for more details.
- 3. Tap on **[View All]** to view a list of bookings, if any.
- 4. Tap and scan the QR code on the desk panel device display for instant on spot desk booking.

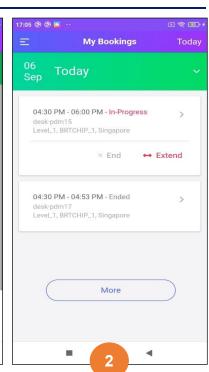


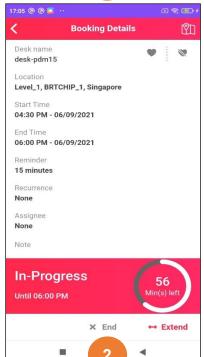
Clearance No.: BRT#179

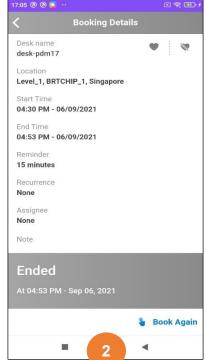
G.My Bookings











My Bookings interface displays the list of desks booked by the user. To view the list of bookings -

- 1. From the home screen, tap on [View All] or from the menu function tap on My Bookings.
- The list of bookings, if any, are displayed. Tap on the booking to view the details of the booking and perform any of these desk functions - *Edit, Claim, Extend, End, Cancel* or *Book Again* as required.





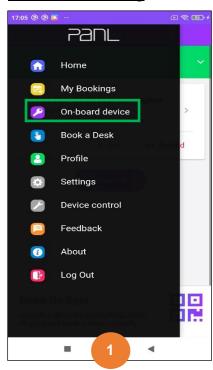


H.On-board Desk Panel Device (PanL35L)*

The on-boarding procedure is performed to integrate the PanL35L desk panel devices to the PDM Server network. *This function is only available for users with Device Management Permission *.

Manual On Boarding

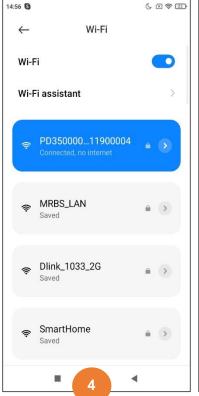
Bridgetek





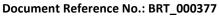






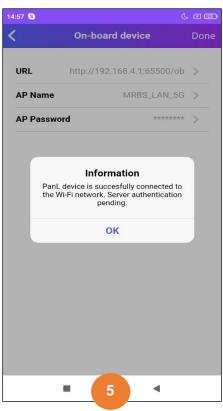






Clearance No.: BRT#179

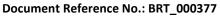




To on-board the PanL35L device manually -

On the PanL35L Device	On the Android Mobile App		
1. Power up the PanL35L device and wait until the LED strip bar turns white (AP Mode).	Tap on the PDM Mobile App menu, select On-board device .		
	2. A message pops up in On-board device interface, prompting the admin user to connect to the PanL35L device's Wi-Fi. Tap on [Yes] and access the Mobile's Wi-Fi Settings.		
3. The device SSID and password are displayed on the PanL35L device.	3. Select the PanL35L device's SSID (refers to the device's Wi-Fi ID which is the device UUID. For example: "PD35000011011900004"). Input the Password to connect. Tap on [Connect] .		
	4. Upon successfully establishing the Wi-Fi connection with the PanL35L device, switch back to the PDM mobile app's On-board device interface using the ← icon. In the On board Device interface, enter the name of the PDM Server network in the AP Name field and password in the AP Password field to connect the PanL35L to the PDM server. Tap on [Done].		
	Note: If the PDM Server Wi-Fi credentials entered is incorrect, then the PanL35L will be in a DISCONNECT State (LED in WHITE). Perform a Factory reset or enter AP mode on the PanL35L.		
	5. Upon successful connection to the network, an authentication from the PDM Server will be awaited. An appropriate message indicating the same is displayed.		
The PanL35L device will switch to Desk Assign Mode. Assign Desk using the PDM Console.	Upon successful authentication from the PDM server, an appropriate message indicating if the network connection is successful or not is displayed.		

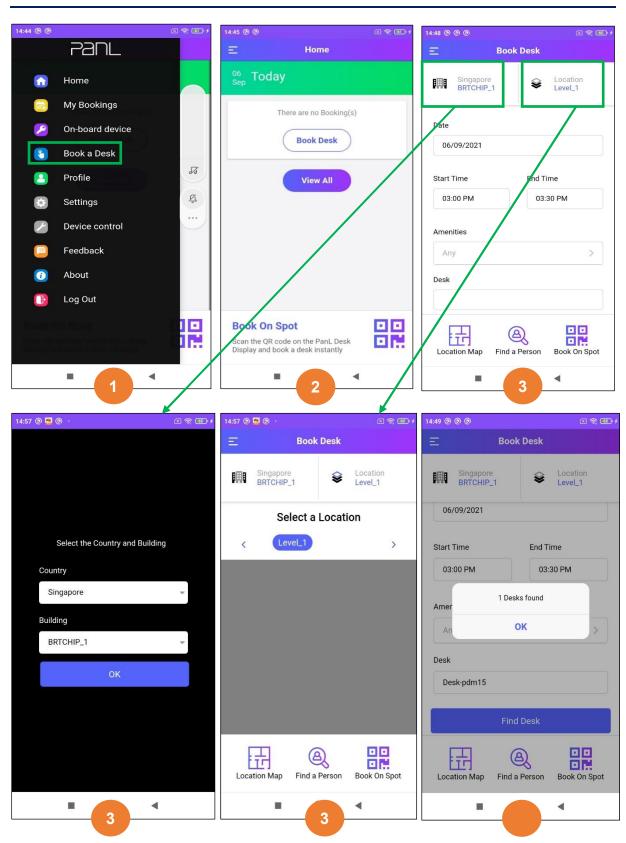


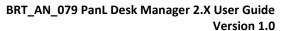


Clearance No.: BRT#179

I. Book a Desk

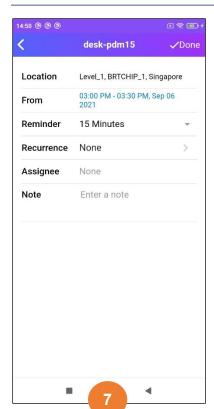
Bridgetek

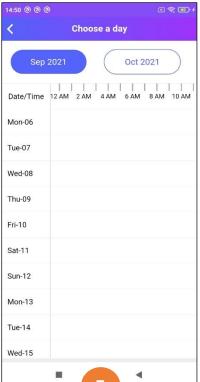


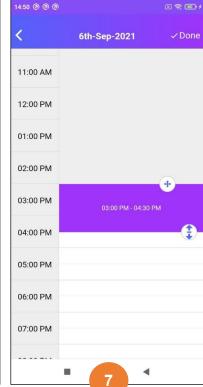


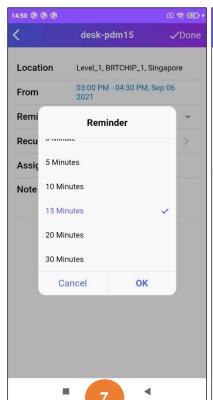


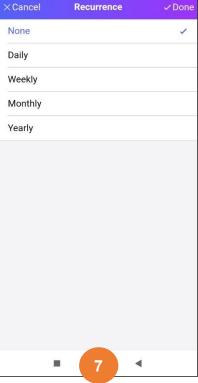
Clearance No.: BRT#179



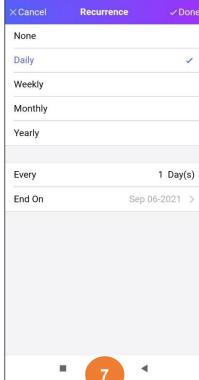




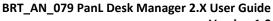




14:50 @ @ @

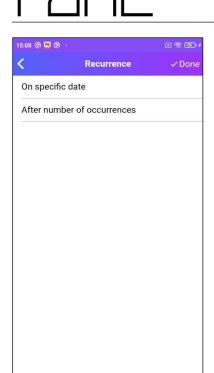


14:51 @ @ @



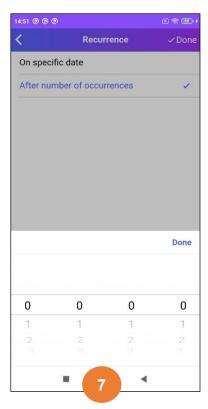


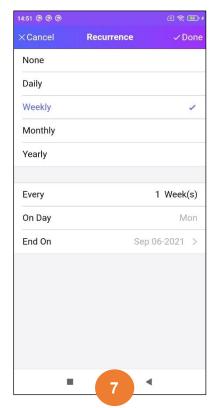
Clearance No.: BRT#179

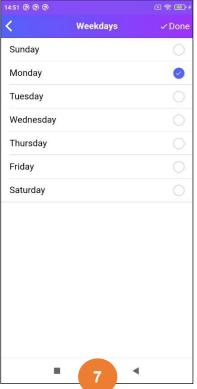


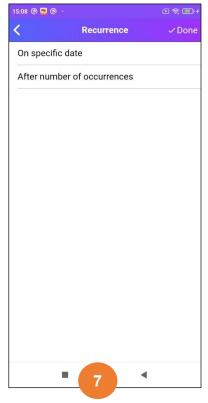
Bridgetek

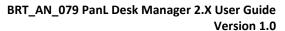






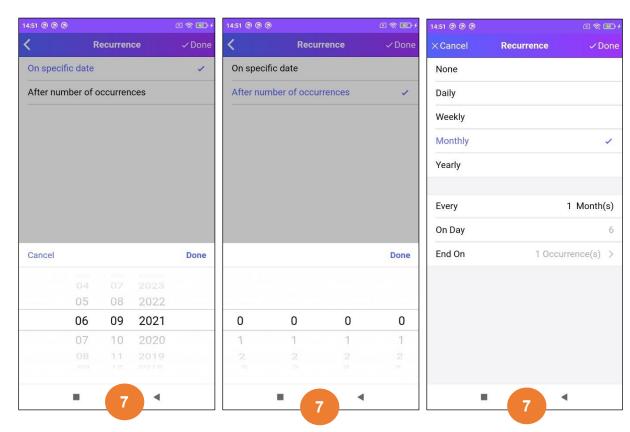


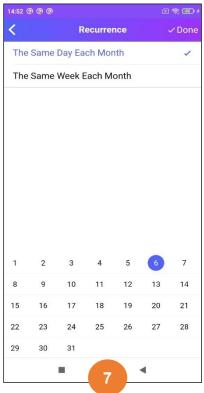


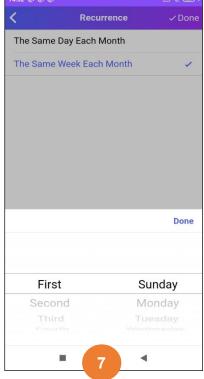




Clearance No.: BRT#179





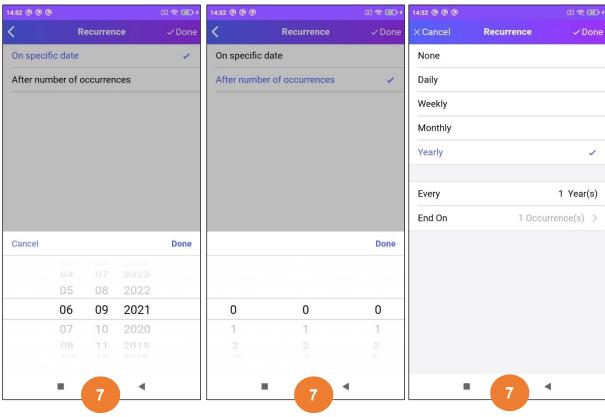


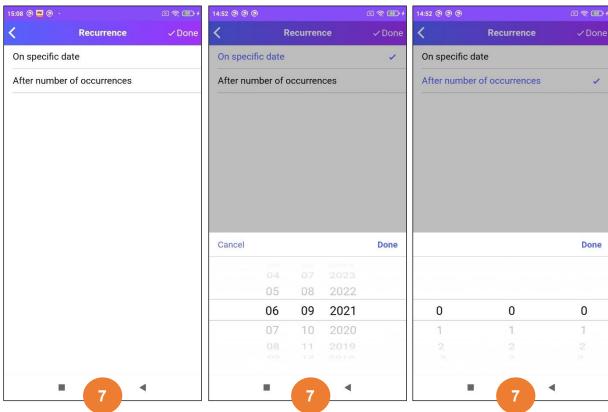


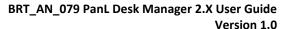


Clearance No.: BRT#179

Version 1.0

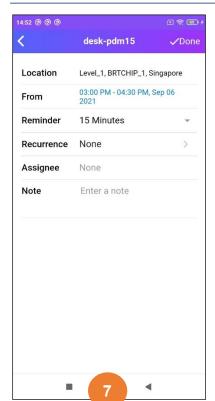


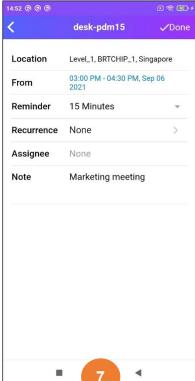


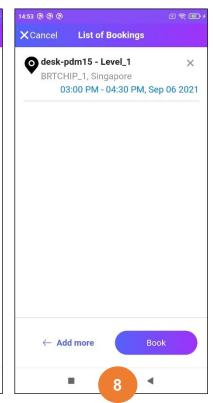


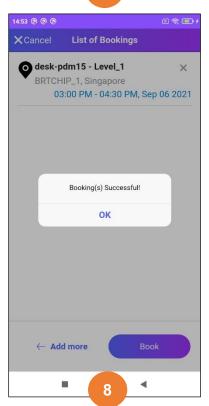


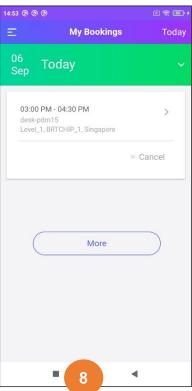
Clearance No.: BRT#179











- 1. Tap on the menu icon and select **Book Desk** or from Home screen, tap on **[Book Desk]**.
- 2. Book Desk interface is displayed. A desk can be booked in the following ways By finding desk (Find Desk) or a Person (Find a Person) or using Location Map or Booking On Spot.



Document Reference No.: BRT_000377 Clearance No.: BRT#179

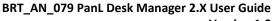
3. Tap and change the Country/Building/Location if required.

Find a desk to book

- 4. Tap and provide the input in the following fields Date, Start Time; End Time; Amenities (if any) and Desk Number or Name. Tap on [Find Desk]. Desks available for booking that meets the search criteria are displayed. Tap on **[OK]** to proceed.
- 5. The bookable desks are displayed in the location map indicated in GREEN. Refer to for the different booking status of desk.
- 6. Select one or multiple bookable desk(s). The selected desk(s) are indicated in BLUE. Tap on [Next]. The selected desk(s) are displayed under the List of bookings
- 7. Tap on the booking. The desk/ booking attributes are displayed. Tap and change the attributes as required.
 - Time Set the desk booking start time and end time by clicking on the Set Time. To change the start time / end time, drag the edge of the time slot on the calendar window. Tap on [Done].
 - Reminder Set the Notification reminder before the booking starts. Tap on [OK]. By default, it will follow the reminder time settings under PDM Console: Configure>Policy.
 - Recurrence Set the booking recurrence pattern (None/Daily/Weekly/Monthly/Yearly). Refer to for more details about the recurrence patterns. Upon selecting the preferred recurrence pattern, tap on [Done] to save.
 - Assignee If desk(s) is booked on behalf of another user, tap on the Assignee field and enter the Username/Email ID.
 - Note Tap and add a note to the booking.
- 8. Upon adding/updating the booking attributes (if any), tap on [Book]. An appropriate message indicating whether the booking is successful or not is displayed. Tap on [OK]. The booking details are displayed in My Bookings interface.

Recurrence Pattern				Description
None	-			None
Daily	Every	On a specific hour of a day		Events that repeat every day based on the number of days until the end of the occurrence
		After the end of previous occurrence		
	End On	On specific date		
Weekly	Every 1 Week(s)	On a specific day of every week		Events that repeat on the same day of the week, based on the number of weeks until the end of the occurrence
		After the end of previous occurrence		
	End On	On specific date		
Monthly	Every 1 We	The Same D every Month The Same Week Each	On specific date	Events that repeat on the same day of the month (for example, 10th) based on the number of months until the end of the occurrence
		Month	After the end of previous occurrence	
	End On	The specific month of the year		
Yearly	Every 1 Year(s)	On specific date		Events that repeat on the same day of the specific month (for example, Jan 10), based on the number of years until the end of the occurrence
		After the end of the previous occurrence		
	End On	After the end of specified number of occurrences		

Table 5 - Recurrence Patterns



Version 1.0

Document Reference No.: BRT_000377

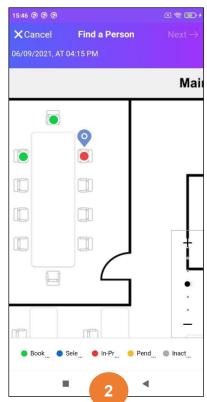
Clearance No.: BRT#179

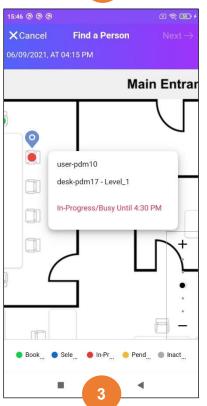
Find a Person & book a Desk

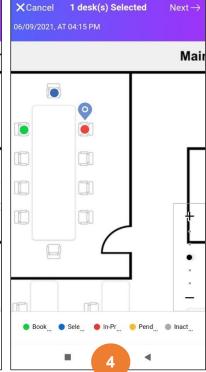
Bridgetek



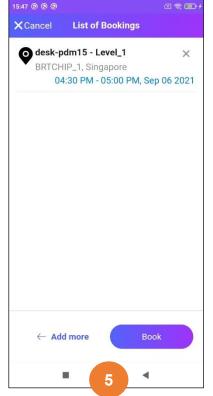








15:46 @ @ @





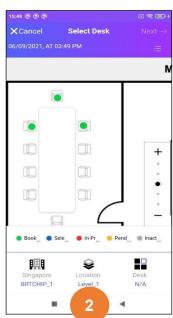
Clearance No.: BRT#179

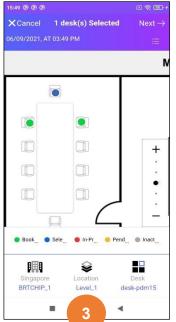
- Tap [Find a Person] and input in the following fields Date, Time and Person Name. Tap on [Find Person]. If the search is successful an appropriate message is displayed. Tap on [OK] to proceed.
- 2. The person's location along with the nearby bookable desks (if any) are displayed.
- 3. Tap on the location icon to view the details (i.e. person name, desk name, location info, desk booking status and booking time).
- 4. Tap on the bookable desks (indicated in GREEN) located near the person to proceed with the desk booking. Refer to for the different booking status of desk.
- 5. The desk selected for booking is listed under the list of bookings. Refer to the **steps 7 to 8** given under the topic **Find a desk to book** to continue booking.

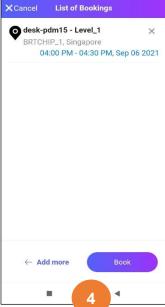
Book a Desk via Location Map

- 1. Tap on [Location Map].
- 2. The bookable desks are displayed in the location map indicated in GREEN. Refer to for the different booking status of desk.
- Select one or multiple bookable desk(s). The selected desk(s) are indicated in BLUE. Tap on [Next]. The selected desk(s) are displayed under the List of bookings. Refer to the steps 7 to 8 given under the topic Find a desk to book to continue booking.

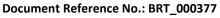








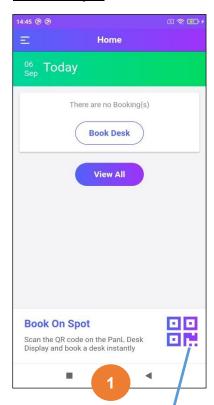


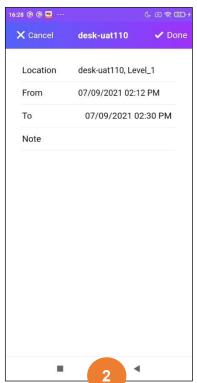


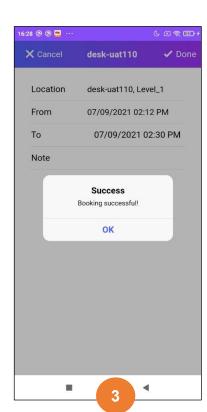
Clearance No.: BRT#179

Book On Spot

Bridgetek







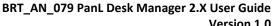




To book a desk On Spot-

- 1. From the Home/Book a Desk interface, tap [Book On Spot] and position the phone so that the OR code on the PanL35L device appears in the digital viewfinder.
- 2. The details of the available desk on the PanL35L device are captured on the mobile app. Make the necessary changes on the booking duration (should be in the range of min and max duration of desk group policies and the start time cannot be changed) or add a note. Tap on [Done].
- 3. An appropriate message indicating whether the booking is successful or not is displayed. Tap on [OK] to close the message window.
- 16:32 🕲 🕲 💆 Home 02:13 PM - 02:30 PM - In-Progress desk-uat110 Level_1, BRTCHIP_1, Singapore × End → Extend View All **Book On Spot** Scan the QR code on the PanL Desk

4. Upon a successful booking, the booking Status is updated from "Available" to "In Progress Until <booking end time>" on the PanL35L device and the mobile app instantly...



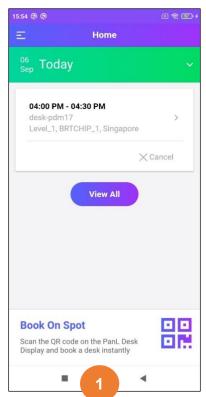


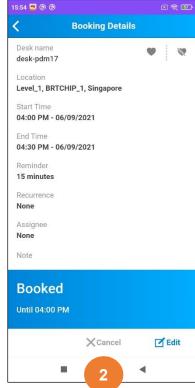
Clearance No.: BRT#179

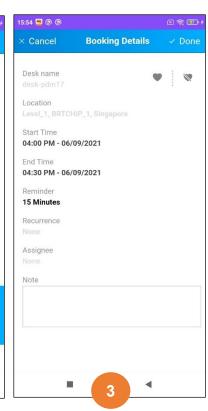
1. Other Booking Functions

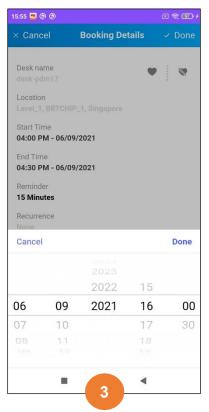
1.1 Edit Booking

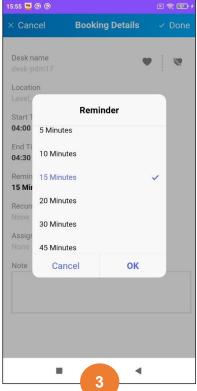
Bridgetek

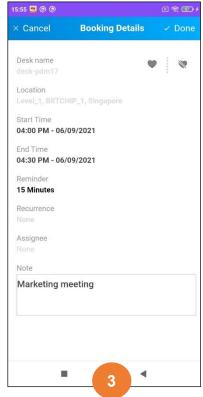












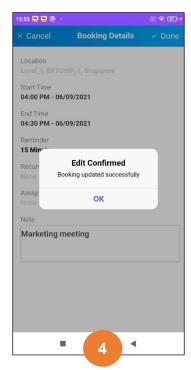


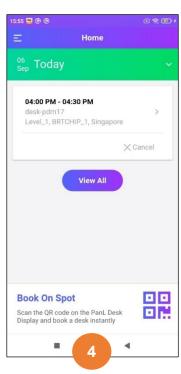
Clearance No.: BRT#179



Bridgetek

- 1. To edit a booking, on the mobile App My Bookings interface, tap on the booking you wish to edit.
- 2. The booking details are displayed. Tap on [Edit].
- 3. Update the booking details as required. For example, if you wish to change the start time, tap on that field. Change the Start time and tap on [Done]. The updated booking details are displayed. Tap on [Done] to save the changes.
- 4. An appropriate message indicating whether the booking details are updated or not is displayed.

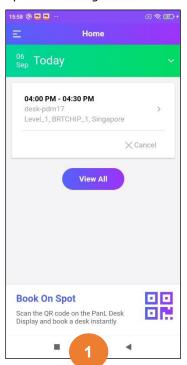


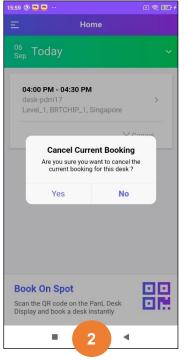


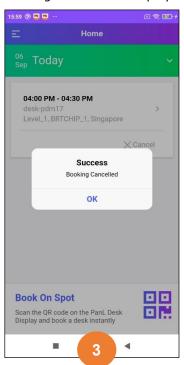
1.2 Cancel Booking

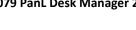
To cancel booking -

- 1. To cancel a booking, on the mobile App My Booking interface, tap on [Cancel] against the booking you wish to cancel.
- 2. A confirmation message is displayed. Tap on [Yes] to cancel the current booking or [No] to discard the operation.
- 3. Upon cancelling the desk booking, an appropriate message indicating the same is displayed.





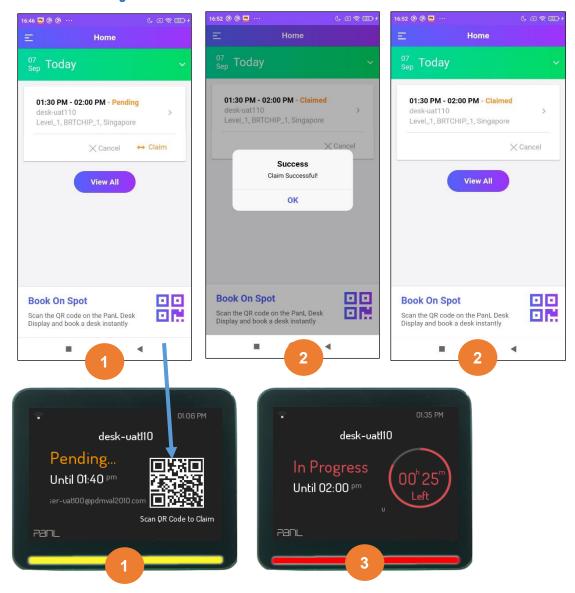




Clearance No.: BRT#179

1.3 Claim Booking

Bridgetek



To claim booking -

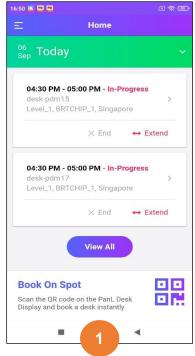
- 1. To claim a booking, on the mobile App from My Booking interface, tap on [Claim] against the booking you wish to claim. Position the phone so the QR code on the PanL35L device appears in the digital viewfinder.
- 2. Upon successful claim, an appropriate message indicating the same is displayed on the mobile app. Tap on [OK]. The status of the booking is updated from "Pending" to "Claimed".
- 3. Once the desk booking time starts, the status is updated to "In Progress" on both the PanL35L device and the mobile app.

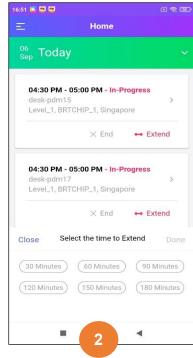


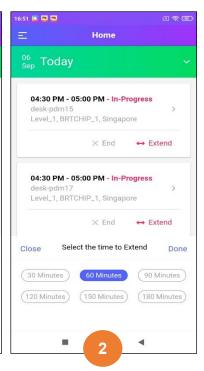
Clearance No.: BRT#179

1.4 Extend Booking

Bridgetek

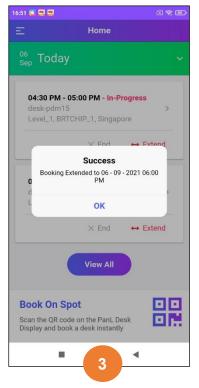


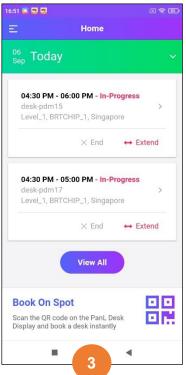




To extend an existing booking -

- From Home/My **Booking** interface, tap on [Extend] against the booking you wish to extend.
- 2. Tap and select the time to extend. Tap on [Done].
- 3. Upon successfully extending the appropriate booking, an message indicating the same is displayed on the mobile app. Tap on [OK]. The new extended time is displayed.

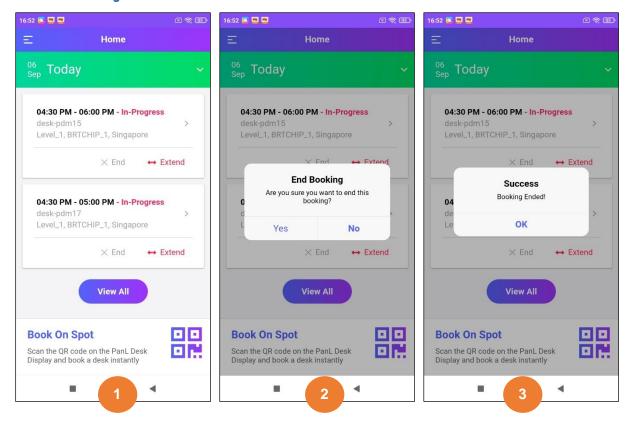






Clearance No.: BRT#179

1.5 End Booking



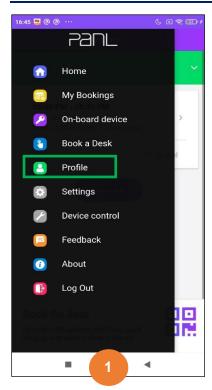
To End booking -

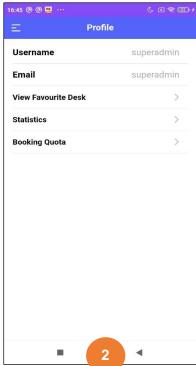
- 1. From My Booking interface, tap on [End] against the booking you wish to end.
- 2. A confirmation message is displayed. Tap on **[Yes]** to end the current booking or **[No]** to discard the operation.
- 3. Upon cancellation, an appropriate message indicating the same is displayed and the desk panel status will change to "Available". Tap on **[OK]**.

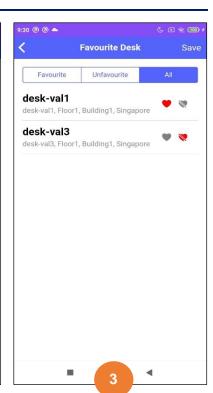


Clearance No.: BRT#179

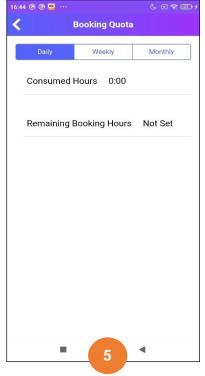
J. Profile











To access user profile interface -

- 1. Tap on the menu icon and select **Profile**.
- 2. The user profile interface displays the following details Currently logged in *Username;* Email; View Favourite / Un-favourite Desk; Booking Statistics; Booking Quota



BRT_AN_079 PanL Desk Manager 2.X User Guide

Version 1.0

Document Reference No.: BRT_000377

Clearance No.: BRT#179

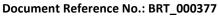
3. Tap on *View Favourite Desk* to access the Favourite Desk interface.

In any of the Favourite/Unfavourite/All tab, users can view and change favourite status by simply tapping the icons.

No Favourite \ Un-favourite Desks (Neutral State)	• %
Favourite Desks	•
Unfavourite Desks	W.

- 4. Tap on **Statistics** to view the booking statistics for a *Week; Month; Year* or *All*. By default, *Week* view is displayed.
- 5. Tap on **Booking Quota** to view the Usage Quota the user is entitled on a *Daily; Weekly; Monthly* basis. The usage quota is defined by admin user while creating the user group and setting the user group policies.



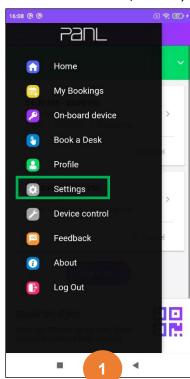


Clearance No.: BRT#179

K.Settings

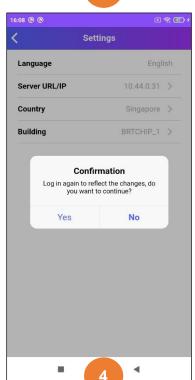
Bridgetek

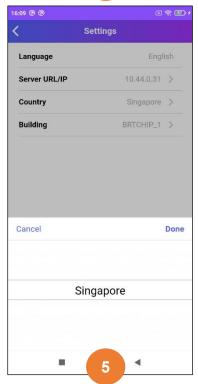
The Settings interface allows user to view and change the mobile app default settings like Language; PDM Server URL Path; Country and Building.













To edit Settings -

1. Tap on the menu icon and select **Settings**.



BRT_AN_079 PanL Desk Manager 2.X User Guide

Version 1.0

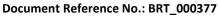
Document Reference No.: BRT_000377

Clearance No.: BRT#179

2. The Settings interface is displayed with the following default settings – *Language; Server URL Path; Country* and *Building*.

- 3. To edit default language, tap on *Language*. The available languages are *English* and *Chinese*. Upon selecting the language, tap on **[OK]** to save the settings.
- 4. Tap on **Server URL Path** to edit the PDM Server URL Path as required. Upon changing the path, log in again to reflect changes. Tap on **[Yes]** or **[No]** accordingly.
- 5. Tap on *Country* to edit the default country settings. Upon editing, tap on [Done] to save the changes.
- 6. Tap on **Building** to edit the default building settings. Upon editing, tap on **[Done]** to save the changes.

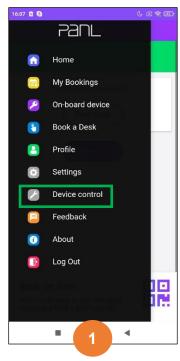




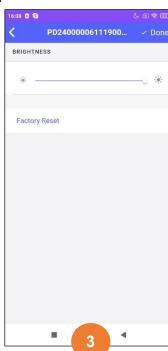
L. Device Control

Bridgetek

The Device Control function is only available for users with device management permission to control the PanL35L desk panel device attribute- Brightness. Factory Reset function is also available to reset the device to factory settings (original configuration with the last updated firmware), not connecting to any PDM Server or network. To use the device again, on-boarding procedure has to be done.



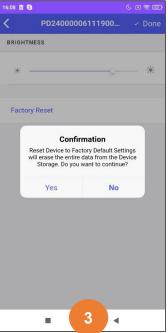




To control PanL35L device attributes -

- 1. Tap on the menu icon and select **Device Control.**
- 2. The Device Control interface is displayed. Key in at least 5 of the device characters SSID/UUID. The list of devices matching the search criteria is displayed. Tap and select the device.
- 3. The selected device and its current attribute (Brightness) is displayed. Using the slider you may increase or decrease the brightness of the device.

Tap on the *Factory Reset* if you device to the original configuration or [No] to discard the operation.





wish to reset the selected PanL35L device to factory settings. An appropriate confirmation message is displayed. Tap on [Yes] to erase all the PDM configuration data and to reset the

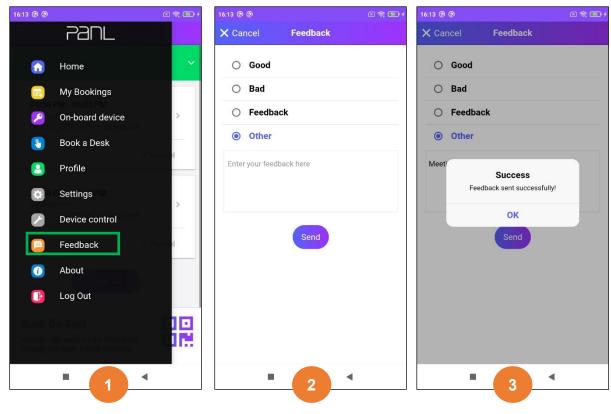
4. Upon changing the attributes (if any) of the device, tap on [Done] to save the changes.



Clearance No.: BRT#179

M. Feedback

The Feedback interface allows users to send feedback about PanL Desk Manager (PDM) solution.



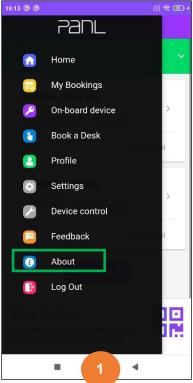
To send feedback -

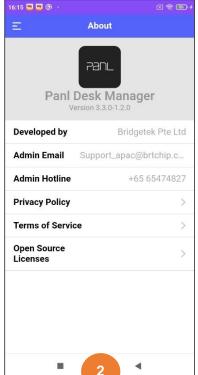
- 1. Tap on the menu icon and select **Feedback**.
- 2. The Feedback interface is displayed with a set of pre-defined feedback options (set under Feedback>Feedback Management under PDM Console by admin). Tap and choose any of the option. If the option *Other* is chosen, user may type in a customized feedback. Upon providing the feedback, tap on [Send].
- 3. An appropriate message indicating whether the feedback was sent successfully or not is displayed.



Clearance No.: BRT#179

N. About





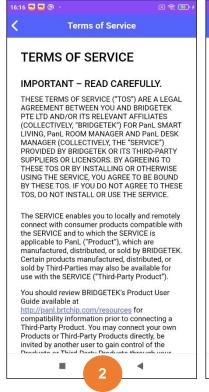


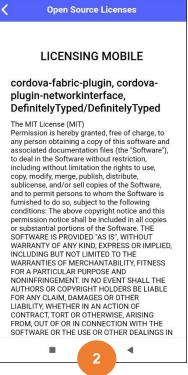
The About interface displays the PDM Mobile App Version, Product developer as well as the organization admin contact and email as a support channel for the users.

To view the about info. -

- Tap on the menu icon and select **About**.
- Information pertaining to Developer, Admin Email, Admin Hotline, Privacy Policy, Terms of Service and Open Source Licenses are displayed.

Tap on **Privacy Policy / Terms of Services / Open Sources Licenses** to view the respective details.





16:16 💂 📮 🕲

X 🖘 🚳

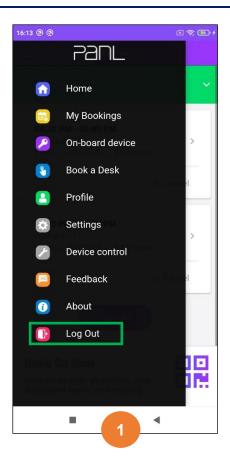


O. Log out

Bridgetek

To logout from the mobile app-

1. Tap on the menu icon and select [Logout].







A. Hardware / Software Requirements

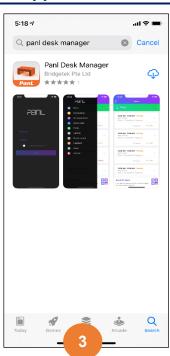
Operating System	Technical Requirement	
iOS	iPhone devices with minimum iOS 11.0	

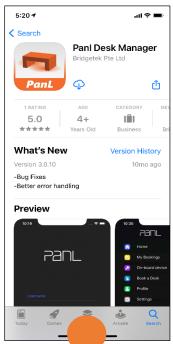
B. Download / Installation of PDM Mobile App from App Store

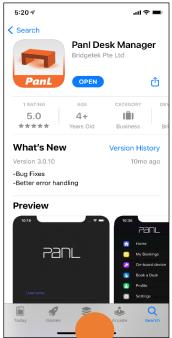


Bridgetek













BRT_AN_079 PanL Desk Manager 2.X User Guide

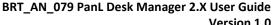
Version 1.0

Document Reference No.: BRT_000377

Clearance No.: BRT#179

The PanL Desk Manager App (PDM) can be downloaded from the Apple Store. Follow the steps given below –

- 1. On the iPhone, tap on [App Store] icon.
- 2. Tap on the **Search** icon.
- 3. Enter "PanL Desk Manager" in the search field. Tap on **[GET]** to start the downloading/installation of the app. The download/installation will commence.
- 4. Upon successful download / installation, tap on **[OPEN]** to start using the PanL Desk Manager App. A shortcut for PDM application is created and displayed.





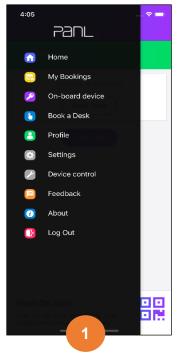


C. On-board Desk Panel Device (PanL35L)*

The on-boarding procedure is performed to integrate the PanL35L desk panel devices to the PDM Server network. *This function is only available for users with Device Management Permission *.

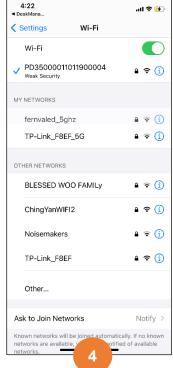
Manual On-boarding

Bridgetek







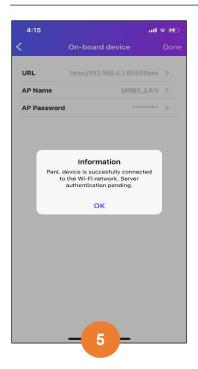










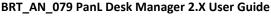


Bridgetek

To on-board the PanL35L device manually -

· · · · · · · · · · · · · · · · · · ·		
On the PanL35L Device	On the iOS Mobile App	
1. Power up the PanL35L device and wait until the LED strip bar turns white (AP Mode).	Tap on the PDM Mobile App menu, select On-board device .	
	2. A message pops up in On-board device interface, prompting the admin user to connect to the PanL35L device's Wi-Fi. Tap on [Yes] and access the Mobile's Wi-Fi Settings.	
3. The device SSID and password are displayed on the PanL35L device.	3. Select the PanL35L device's SSID (refers to the device's Wi-Fi ID which is the device UUID. For example: "PD35000011011900004"). Input the Password to connect. Tap on [Join] .	
	 Upon successfully establishing the Wi-Fi connection with the PanL35L device, switch back to the PDM mobile app's On-board device interface by tapping on [Settings]. In the On board Device interface, enter the name of the PDM Server network in the AP Name field and password in the AP Password field to connect the PanL35L to the PDM server. Tap on [Done]. Note: If the PDM Server Wi-Fi credentials entered is incorrect, then the PanL35L will be in a DISCONNECT State (LED in WHITE). Perform a Factory reset or enter AP mode on the PanL35L. Upon successful connection to the network, an authentication 	
	from the PDM Server will be awaited. An appropriate message indicating the same is displayed.	
The PanL35L device will switch to Desk Assign Mode. Assign Desk using the PDM Console.	Upon successful authentication from the PDM server, an appropriate message indicating if the network connection is successful or not is displayed.	

Please refer to PanL Desk Manager Mobile App for Android Users for using the other mobile app functions.

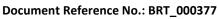


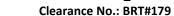


Clearance No.: BRT#179



PanL35L Desk Panel Device Display





IX. Getting Started with PanL35L Desk Panel Device Display

A. PanL35L (PD35L) Device Display Overview

The PanL35L Display provides users an intuitive interface option to monitor and trigger control events. It is based off a 3.5 inch 320 x 240 pixel TFT LCD panel powered by Bridgetek's very own Embedded Video Engine (EVE) Graphic Controller chip that enables rich and intuitive GUI displays. It also comes with built in buzzer and Wi-Fi module for wireless connectivity. The display is also furnished with a RGB LED strip light indicator where different color codes can be programmed to represent a certain application event. The display can be placed at highly accessible areas with a flat surface and is powered by a 5V Micro-USB adaptor which comes along with the package.

Features:

Bridgetek

The PanL35L is built upon Bridgetek's FT813Q graphic controller together with an ESP32 Wi-Fi module to wirelessly connect the display to a Wi-Fi Access Point. The PanL35L has the following features:

- Dual-Core 32-bit LX6 microcontroller (MCU)
- Built-in advanced FT813Q graphics controller with display and audio functionality
- 3.5" high brightness TFT LCD (320*240 pixels)
- Support Wi-Fi 802.11b/g/n (2.4GHz), up to 150Mbps
- **Built In Buzzer**
- **RGB LED Strip Indicator**
- Micro USB Type B Port
- DC Power: 5V / 1A
- Operating temperature range: 0°C to +55°C
- FCC ID: 2AC7Z-ESPWROOM32D



5VDC Power Adaptor

Micro-USB Cable





B. PanL35L Product Specifications

	Microcontroller	32-bit RISC MCU	
PLATFORM	Graphic Controller	FT813Q	
	Display Size	3.5" TFT LCD	
	Number of Pixels	320 x 240	
	Active Display Area	70.8 x 52.56 mm	
DISPLAY	Light Intensity	540 cd/m2	
	Display Color	16.7M	
	Viewing Angles	60°	
	Wi-Fi	2.4 GHz 802.11 b/g/n, up to 150Mbps	
	Sound Alert	Buzzer	
FEATURES	Function Button	Multiple Function	
	Power Indicator	Green LED	
	LED Status Indicator	RGB LEDs	
DOWED DADAMETES	Input Voltage	5 VDC/1.0A	
POWER PARAMETER	DC Connector	Micro USB Type B	
	Color	Cool Grey	
PHYSICAL	Housing Material	Polycarbonate	
CHARACTERISTICS	Dimensions	85 x 67.80 x 70.05 mm	
	Weight	109g	
ENVIRONMENTAL LIMITS	Operating Temperature	0 to 55°C	
	Storage Temperature	0 to 70°C	
ENVIRONMENTAL LIMITS	Ambient Relative	20 to 85% (non-condensing)	
	Humidity		
		EN 55032:2015+AC:2016 Class B	
	EMC (FCC/CE)	CISPR 32:2015+C1:2016 Class B	
	2 (. 66, 62)	EN 55035:2017	
		FCC Part 15, Subpart B	
	Radio Equipment	EN 301 489 - 1 v2.2.0	
STANDARDS &	Directive (RED)	EN 301 489 - 17 v3.2.0	
CERTIFICATIONS	Safety (LVD) IEC 62368-1:2014		
		EN 62368-1:2014+A11:2017	
		EN300 330 v2.1.1	
	RF (FCC/CE)	EN62311:2008	
	(,,	FCC PART 15, Subpart C (15.225)	
		EN 300 328 v2.1.1	
		1x PanL35L	
	Devices	1x 5W USB-B Power Adapter	
PACKAGE CONTENTS		1x USB Charge Cable (1.2 meter)	
		2x Double Sided Adhesive Tapes for	
		Rubber Foot	
Documentation 1x Quick Start Guide			

Table 6 - PanL35L Display Specifications

Clearance No.: BRT#179

C. PanL35L (PD35L) Desk Panel Display Setup

The following steps will guide you through to Set up PanL35L Display -

- 1. Identify a flat surface to place PanL35L where the bottom RGB LED strip has good 180 degrees visibility to users. Ensure that it is placed within Wi-Fi range and power socket is within reach. Power up PD35L with the Micro-USB cable and power adaptor provided. A longer micro-USB cable can be used in the event that the cable supplied is not sufficient.
- 2. The RGB LED strip will be BLUE upon power up and will change to WHITE when Wi-Fi is ready to connect (AP mode). Follow the on-boarding instructions.



Once on-board is done and the cables are neatly placed, peel of the adhesive tapes provided and secure display. *(OPTIONAL)*. The RGB LED Strip light should reflect the desk booking status below if on-boarding and desk assigning procedure is done.



Green -Available



Yellow -Pending Claim



Red -In Progress

Clearance No.: BRT#179

D. On-Boarding

Refer to **On-board Desk Panel Device (PanL35L)*** for on-boarding procedure to the PDM network.

Refer to the topic *Assign Desk to a device* under section **Device Management** for steps involved in assigning a desk to the desk panel.

E. Accessing Device Control Menu

The PanL35L Display menu functions allows users to perform functions like setting the device brightness / volume; Resetting the device to factory settings (if required) etc.

To access the menu -

- 1. Using a pin, gently press the function button at the back of the panel for 3 seconds. The PanL35L device control menu is displayed.
- 2. Toggle between the menu items by doing short presses. Once the item is highlighted, press the function button for 3 seconds to enter into the item interface. To exit the menu, toggle to the back button and press for 3 seconds,







1. Settings

The Settings interface allows users to increase or decrease brightness / volume of the PanL35L Display.

To change device settings -

- Navigate to **Settings** by doing short presses and once Settings is selected, press the function button for 3 seconds.
- b. The Settings interface is displayed. Increase or decrease the brightness of the device as required by doing short presses to select the function. In order to execute the function, press the function button again for 3 seconds and do short presses. To exit to main menu, toggle to the back button and press for 3 seconds.





2. About

The About interface displays the PanL35L device level information.

To view device level information -

- Navigate to the About interface by doing short presses and once the About menu is selected, press the function button again for 3 seconds.
- The About interface is displayed with the PanL35L device level information Device Name, device Location, the Wi-Fi network to which the device is connected, device Unique ID and the Firmware version installed on the device are displayed. To exit to main menu, toggle to the back button and press for 3 seconds.









3. Factory Reset

The Factory Reset function allows users to reset the PanL35L device to its original configuration with the last updated firmware, not connecting to any PDM Server or network. To use the device again, on-boarding procedure has to be completed.

To reset device to factory settings -

- Navigate to Factory Reset by doing short presses and once Factory Reset is selected, press the function button again for 3 seconds.
- b. The Factory Reset Interface is displayed. Input 0000 and the device will proceed to reset to factory settings.
- c. A confirmation message is displayed. Tap on [RESET DEVICE] to proceed.









Document Reference No.: BRT_000377 Clearance No.: BRT#179

4. AP Mode

The AP Mode is useful in the event that the device needs to be connected to another PDM Wi-Fi network while still connecting to the current PDM server.

To access the AP mode -

- a. Navigate to the **Forward** button on the main menu by doing short presses and once it is selected, press the function button again for 3 seconds.
- b. Navigate to **AP Mode** by doing short presses and once it is selected, press the function button again for 3 seconds.
- c. The AP Mode interface is displayed. Refer to for on-boarding procedure to connect the device to another PDM Wi-Fi network.









Clearance No.: BRT#179

5. Shutdown

To shut down a device manually without detaching the power cable-

- a. Navigate to the **Forward** button on the main menu by doing short presses and once it is selected, press the function button again for 3 seconds.
- b. Navigate to **Shut down** by doing short presses and once it is selected, press the function button again for 3 seconds.







Clearance No.: BRT#179

X. Appendix

A. Acronyms & Abbreviations

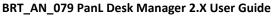
Acronyms	Abbreviations
AP	Access Point
GUI	Graphical User Interface
HMI	Human Machine Interface
IP	Internet Protocol
LCD	Liquid Crystal Display
LED	Light Emitting Diode
LDAP	Lightweight Directory Access Protocol
MCU	Micro Controller Unit
NTLM	New Technology LAN Manager
PDM	PanL Desk Manager
PWM	Pulse Width Modulation
TFT	Thin Films Transistor

B. List of Figures

iauro 1	l – Dani	Deck Manager Fo	osystem	11	

C. List of Tables

Table 1 – Desk Booking Policies	105
Table 2 – User Group Policies	
Table 3 – User Group Permissions	111
Table 4 - Desk Status	
Table 5 - Recurrence Patterns	169
Table 6 - PanL35L Display Specifications	





Version 1.0

Document Reference No.: BRT_000377

Clearance No.: BRT#179

XI. Revision History

Document Title : BRT_AN_079 PanL Desk Manager 2.X User Guide

Document Reference No. : BRT_000377
Clearance No. : BRT#179

Product Page : https://brtchip.com/product/

Document Feedback : <u>Send Feedback</u>

Revision	Changes	Date
Version 1.0	Initial Release	02-11-2021