# USER GUIDE

BRTSys

# Room Manager 3.1.1

# Part 4 ~ PRM and PanL Hub Supervisor Console

(Ver.5.1.1-3.1.0) / (Ver.5.1.0-3.2.0)



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# BRTSys

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# 1. About This Guide

This guide explains the usage of PRM Supervisor and PanLHub Supervisor Console. The screenshots used are for illustration purpose only.

# 2. Intended Audience

The intended audience will be System Integrators, Technical / Administrative users who will assist in realizing the capabilities, functions, and the full benefits of the product.

### Note:

- 1. Ensure the firmware version and package version number are up-to-date and update/upgrade accordingly.
- 2. For more information about the latest version and compatibility, contact the BRT Systems sales/support.

# **3. Document References**

| Document Name                                      | Document Type     | Format |
|--|-------------------|--------|
| BRTSYS AN 036 PRM User Guide - 1. Introduction     | Application Note/ | PDF    |
| BRTSYS AN 037 PRM User Guide - 2. Installation and | User Guide        |        |
| <u>Configuration</u>                               |                   |        |
| BRTSYS_AN_038_PRM User Guide - 3. PRM Management   |                   |        |
| Console  |                   |        |
| BRTSYS AN 040 PRM User Guide - 5. Outlook Add-In   |                   |        |
| BRTSYS AN 041 PRM User Guide - 6. PanL PD100 Touch |                   |        |
| <u>Display</u>                                     |                   |        |



# 4. PRM Supervisor Console

PRM Supervisor Console provides administrative users with the following configuration and software update functions.

# 4.1 Starting PRM Supervisor Console

Open the PRM Supervisor Console using Mozilla Firefox/Chrome/Safari/Microsoft Edge browser

 <u>https://<PRM\_Server\_IP>:8081/pages/home</u> and enter the login credentials. For example –
 Username: admin; Password: password. Ensure PRM Server Software is installed successfully
 and all PRM services are running beforehand.

After logging in (for the first time), you may set the password in the Set Password interface. Enter the *Password* and *Confirm* the same. Click **[Set Password]**.

| Enter Password                 |                        |
|--------------------------------|------------------------|
|                                | W                      |
| Your password must includes:   |                        |
| ✓ At least 1 letter            |                        |
| ✓ At least 1 number            |                        |
| ✓ 8 to 16 characters           |                        |
| Confirm Password               |                        |
| ••••••                         | Ø                      |
| ✓ Confirm Password must be the | same as Enter Password |
|                                |                        |
|                                |                        |
| Set Password                   |                        |

b. Edit the "config.json" file (for On premises exchange server) that is provided as part of the package as highlighted yellow in example below:

| <u>{</u>   |   |
|--|---|
| <u> </u>   |   |
| "EWS CAL PERMISSION": 2,                                       |   |
| "EWS IMP PWD": "12345678",                                     |   |
| "EWS IMP USER": "service account@bridgetek.com",               |   |
| "EWS SCHEMA": "Exchange2016",                                  |   |
| "EWS URL": "https://exchange.bridgetek.com/EWS/Exchange.asmx", |   |
| "EXCHANGE AUTHENTICATION": 2                                   |   |
| },   |   |
| "CATERING": {  |   |
| "CATERING AD EMAIL": "service account@bridgetek.com ",         |   |
| "CATERING AD NAME": "Administrator"                            |   |
| },   |   |
| "EMAIL": {   |   |
| "SYSTEM ADMIN NAME": "Admin",                                  |   |
| "SYSTEM EMAIL": "service account@bridgetek.com ",              |   |
| "SYSTEM EMAIL PWD": "12345678",                                |   |
| <pre>`WELCOME EMAIL': `service account@bridgetek.com ``</pre>  |   |
| · · · · · · · · · · · · · · · · · · ·                          |   |
| "EQUIPMENT": {   |   |
| "EQUIP AD EMAIL": "service account@bridgetek.com ",            |   |
| "EQUIP AD NAME": "Admin"                                       |   |
| },   |   |
| "SMTP": {  |   |
|  |   |
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"SMTP ADDRESS": "exchange.bridgetek.com",
 "SMTP PORT": 587
}

| Parameter               | Description  |
|-------------------------|--|
| EWS CAL PERMISSION      | Refers to the impersonation account permission                         |
| EWS IMP PWD             | Refers to the impersonation account password                           |
| EWS IMP USER            | Refers to the impersonation account                                    |
| EWS SCHEMA              | Refers to the Microsoft Exchange Scheme version                        |
| EWS URL                 | Refers to the Microsoft Exchange Server URL                            |
| EXCHANGE AUTHENTICATION | Refers to the Microsoft Authentication method                          |
| CATERING AD EMAIL       | Refers to the Catering Admin's Email Id                                |
| CATERING AD NAME        | Refers to the Catering Admin's Name                                    |
| SYSTEM ADMIN NAME       | Refers to the System Admin Name  |
| SYSTEM EMAIL            | Refers to the Email ID as sender for email notification                |
| SYSTEM EMAIL PWD        | Refers to the Password   |
| WELCOME EMAIL           | Refers to the email used as sender for email welcome email             |
| EQUIP AD EMAIL          | Refers to the Equipment Admin's Email Id                               |
| EQUIP AD NAME           | Refers to the Equipment Admin's Name                                   |
| SMTP ADDRESS            | Refers to the address of the mail server (used for email notification) |
| SMTP PORT               | Refers to the SMTP Port  |

### Table 1 – Config.json file for On Premises Exchange Server

c. Edit the "config.json" file (for Microsoft365 exchange server) that is provided as part of the package as highlighted yellow in example below:

| <u>{</u>                                |                            |
|---|----------------------------|
| "CALENDAR": {                           |                            |
| "EWS CAL PERMISSION": 2,                |                            |
| "EWS IMP PWD": "12345678",              |                            |
| "EWS IMP USER": "service account@br     | idgetek.com",              |
| "EWS SCHEMA": "Exchange2016",           |                            |
| "EWS URL": "https://outlook.office3     | 65.com/EWS/Exchange.asmx", |
| "EXCHANGE AUTHENTICATION": 2,           |                            |
| "APPLICATION ID": "478489dc-87ee-4c91-8 | bc9-8dec6189b17d",         |
| "DIRECTORY ID": "68ec9fe9-20d5-4eb7     | -936d-2a60790cb9dd"        |
| },                                      |                            |
| "CATERING": {                           |                            |
| "CATERING AD EMAIL": "service accou     | nt@bridgetek.com ",        |
| "CATERING AD NAME": "Administrator"     | <u> </u>                   |
| },                                      |                            |
| "EMAIL": {                              |                            |
| "SYSTEM ADMIN NAME": "Admin",           |                            |
| "SYSTEM EMAIL": "service account@br     | idgetek.com ",             |
| "SYSTEM EMAIL PWD": "12345678",         |                            |
| "WELCOME EMAIL": "service account@b     | ridgetek.com "             |
| },                                      |                            |
| "EQUIPMENT": {                          |                            |
| "EQUIP AD EMAIL": "service account@     | bridgetek.com ",           |
| "EQUIP AD NAME": "Admin"                |                            |
| },                                      |                            |
| "SMTP": {                               |                            |
| "SMTP ADDRESS": "smtp.office365.com     | " <mark>,</mark>           |
| "SMTP PORT": 587                        |                            |
| }                                       |                            |
| }                                       |                            |
|   |                            |

| 6 | BRT | Sys |
|---|-----|-----|
|   |     |     |

| Parameter               | Description  |  |  |
|-------------------------|--|--|--|
| EWS CAL PERMISSION      | Refers to the impersonation account permission                         |  |  |
| EWS IMP PWD             | Refers to the impersonation account password                           |  |  |
| EWS IMP USER            | Refers to the impersonation account                                    |  |  |
| EWS SCHEMA              | Refers to the Microsoft Exchange Scheme version                        |  |  |
| EWS URL                 | Refers to the Microsoft Exchange Server URL                            |  |  |
| EXCHANGE AUTHENTICATION | Refers to the Microsoft Authentication method                          |  |  |
| APPLICATIN ID           | Identifies your application in the Microsoft Identity Platform         |  |  |
| DIRECTORY ID            | Refers to the Azure Active Directory's Global Unique Identifier        |  |  |
| CATERING AD EMAIL       | Refers to the Catering Admin's Email Id                                |  |  |
| CATERING AD NAME        | Refers to the Catering Admin's Name                                    |  |  |
| SYSTEM ADMIN NAME       | Refers to the System Admin Name  |  |  |
| SYSTEM EMAIL            | Refers to the Email ID as sender for email notification                |  |  |
| SYSTEM EMAIL PWD        | Refers to the Password   |  |  |
| WELCOME EMAIL           | Refers to the email used as sender for email welcome email             |  |  |
| EQUIP AD EMAIL          | Refers to the Equipment Admin's Email Id                               |  |  |
| EQUIP AD NAME           | Refers to the Equipment Admin's Name                                   |  |  |
| SMTP ADDRESS            | Refers to the address of the mail server (used for email notification) |  |  |
| SMTP PORT               | Refers to the SMTP Port  |  |  |

- Table 2 Config.json file for Microsoft365 Exchange Server
- d. Click Config link and browse for "*config.json"* file that is provided as part of the package. Click **[add]**.

| PRM Supervisor Console |              |         |           |           |  |  |  |
|------------------------|--------------|---------|-----------|-----------|--|--|--|
| Home.<br>Config        |              |         |           |           |  |  |  |
| PRM Status             |              |         |           |           |  |  |  |
| Name                   | State        | Status  | Version # | Action(s) |  |  |  |
| PRM                    | UnConfigured | Running | 3.18.19   | Restart   |  |  |  |
| PRM Services Sta       | atus         |         |           |           |  |  |  |
| Service Version        | #            | Status  |           | Action(s) |  |  |  |
|                        |              |         |           |           |  |  |  |



e. If the configuration file is uploaded successfully, additional functions will appear as below -

|   | upervisor  | Console      |  |   |  |
|---|--|--------------|--|---|--|
| iome<br>Jpload Packag<br>PanLHubs stati<br>Ret Date & Tim<br>Jomain & Certi<br>Reset Passwor<br>Jog Out<br>PRM Status | te<br>us<br>fficate<br>rd  |              |  |   |  |
| Name  |  | State S      | tatus Version #  | Action(s)   |  |
| PRM   |  | Configured R | unning 5.0.0-2.2.0   | Restart   |  |
|   |  |              |  |   |  |
| PRM Service   | es Status<br>Version#  |              | Status   | Action(s)   |  |
| RM Service<br>Service<br>Pes  | es Status<br>Version #<br>1.3.0-2.0.0  |              | Status<br>Running  | Action(s)<br>Restart Stop                                 |  |
| Y <mark>RM Service</mark><br>Service<br>Pes<br>NgInx  | es Status<br>Version #<br>1.3.0-2.0.0<br>1.20.2                              |              | Status<br>Running<br>Running                                     | Action(s)<br>Restart Stop<br>Restart Stop                 |  |
| RM Service<br>Service<br>Pes<br>Ngirox<br>PanLNode  | es Status<br>Version #<br>1.3.0-2.0.0<br>1.20.2<br>16.13.2                   |              | Status<br>Running<br>Running<br>Running                          | Action(s)<br>Restart Stop<br>Restart Stop<br>Restart Stop |  |
| RM Service<br>Service<br>Pes<br>Nginx<br>PanLNode<br>Postgre  | es Status<br>Version #<br>1.3.0-2.0.0<br>1.20.2<br>16.13.2<br>12.16          | _            | Status<br>Running<br>Running<br>Running<br>Configured            | Action(s)<br>Restart Stop<br>Restart Stop<br>Restart Stop |  |
| PRM Service<br>Service<br>Pes<br>NgIrx<br>PanLNode<br>Postgre<br>Redis  | es Status<br>Version #<br>1.3.0-2.0.0<br>1.20.2<br>16.13.2<br>12.16<br>3.0.6 |              | Status<br>Running<br>Running<br>Running<br>Configured<br>Running | Action(o)<br>Restart Stop<br>Restart Stop<br>Restart Stop |  |

-

<u>Note:</u> Ensure that the PRM License is obtained before proceeding with the following functions - *Upload Package, Upload Certificate, PanlHub Status, Set Date & Time,* and *Reset Password.* These functions will be displayed only upon obtaining the PRM License. Refer to the steps given under the section Generate License in <u>BRTSYS\_AN\_039\_PRM User Guide - 3. PRM Console</u> for details on obtaining PRM license.



# 4.2 Upload Package

Upload the latest PRM Server or Hub Software for new features, enhancements, or bug fixes. Alternatively, PanLHub package can be uploaded and updated directly through URL <a href="https://enalthub.ip>:8081/pages/home">https://enalthub.ip>:8081/pages/home</a> without going through PRM Server.

a. To upload PRM software update package, click **Upload Package** link.

| -RW S   | upervisor  | Console       |  |   |  |
|---|--|---------------|--|---|--|
| tome<br>Joload Packao<br>PanLHubs stat<br>Set Date & Tim<br>Jomain & Cert<br>Reset Passwor<br>Log Out<br>PRM Status | ue<br>us<br>tficate<br>rd  |               |  |   |  |
| Name  |  | State Sta     | utus Version #   | Action(s)   |  |
| PRM   |  | Configured Ru | nning 5.0.0-2.2.0  | Restart   |  |
|   |  |               |  |   |  |
| RM Servic   | es Status<br>Version #   |               | Status   | Action(s)   |  |
| PRM Servic<br>Service<br>Pes  | es Status<br>Version #<br>1.3.0-2.0.0  |               | Status<br>Running  | Action(s)<br>Restart Stop                                 |  |
| PRM Servic<br>Service<br>Pes<br>NgInx   | Version #<br>1.3.0-2.0.0<br>1.20.2   | _             | Status<br>Running<br>Running                                     | Action(s)<br>Restart Stop<br>Restart Stop                 |  |
| RM Servic<br>Service<br>Pes<br>NgInx<br>PanLNode  | Version #<br>1.3.0-2.0.0<br>1.20.2<br>16.13.2                                |               | Status<br>Running<br>Running<br>Running                          | Action(s)<br>Restart Stop<br>Restart Stop<br>Restart Stop |  |
| RM Service<br>Service<br>Pes<br>NgInx<br>PanLNode<br>Postgre  | es Status<br>Version #<br>1.3.0-2.0.0<br>1.20.2<br>16.13.2<br>12.16          |               | Status<br>Running<br>Running<br>Running<br>Configured            | Action(s)<br>Restart Stop<br>Restart Stop<br>Restart Stop |  |
| RM Servic<br>Service<br>Pes<br>NgInx<br>PanLNode<br>Postgre<br>Redis  | es Status<br>Version #<br>1.3.0-2.0.0<br>1.20.2<br>16.13.2<br>12.16<br>3.0.6 |               | Status<br>Running<br>Running<br>Running<br>Configured<br>Running | Action(s)<br>Restart Stop<br>Restart Stop<br>Restart Stop |  |

### To Upload PRM Package

b. Choose *PRM*; Click **[Browse]** and select the *Package* and Package signed certificate which comes with the new released package. Upon selecting the packages, click **[Upload]**.

| PRM Supervisor Cons   | sole                              |  |
|---|-----------------------------------|--|
| Home     Upload Package     PanLHubs status     Set Date & Time     Domain & Certificate     Reset Password     Loo Out     Upload Package     Select the server:     PRM     PanLHub |                                   |  |
| Package   | Choose Files PRM_Pack3.0.3.tar.gz |  |
| Package Signed Certificate  | Choose Files PRM_Packtar_Cert.zip |  |
| Upload  |                                   |  |



### To Upload PanLHub Package

c. Choose *PanLHub*. Click **[Browse]** and select the *Package* and Package signed certificate which comes with the new released package. Upon selecting the packages, click **[Upload]**.

| PRM Supervisor Cons   | ole                                      |
|---|--|
| Home     Upload Package     PanLHubs status     Set Date & Time     Domain & Certificate     Panel Recoverd |  |
| <u>Reset Password</u> Log Out     package is saved  |  |
| Upload Package<br>Select the server:  |  |
| PRM     PanLHub     PanLHub   | Charace Films   UIUD Deals - 2.0 Alberta |
| Package Package Signed Certificate  | Choose Files HUB_Pack3.0.4.tar_gz        |

d. An appropriate message is displayed if the upload is successful.

| PRM Supe  | PRM Supervisor Consc  | le                          |
|---|---|-----------------------------|
| Home     Upload Package     PanLHubs status     Set Date & Time     Domain & Certificate     Reset Password     Log Out | Home     Upload Package     PanLHubs status     Set Date & Time     Domain & Certificate     Reset Password     Log Out |                             |
| <ul> <li>package is saved</li> </ul>  | package is saved  |                             |
| Upload Package  | Upload Package  |                             |
| Select the server:  | Select the server.  |                             |
| PRM   | O PRM   |                             |
| O PanLHub   | PanLHub   |                             |
| Package   | Package   | Choose Files No file chosen |
| Package Signed Ce   | Package Signed Certificate  | Choose Files No file chosen |



# 4.3 Update Package

Upon uploading the PRM / PanLHub package, update the package.

To update package

a. Click *Home* link; Under Action(s), click *Update* link.

|   | upervisor   | Console  |   |
|---|---|--|---|
| tome<br><u>Jpioad</u> Package<br>PanLHubs stat<br>Set Date & Tim<br>Jomain & Cert<br>Reset Passwor<br>Log Out<br>PRM Status | 19<br>us<br>19<br>ificate<br>rd                                     |  |   |
| Name  |   | State Status Version #   | Action(s)   |
| PRM   |   | Configured Running 5.0.0-2.2.0                                   | Restart Update  |
|   | 128 8   |  |   |
| PRM Servic<br>Service   | es Status<br>Version #  | Status   | Action(s)   |
| PRM Servic<br>Service<br>Pes  | Version #   | Status<br>Running  | Action(s)<br>Restart Stop   |
| PRM Servic<br>Service<br>Pes<br>NgInx   | es Status<br>Version #<br>1.3.0-2.0.0<br>1.20.2                     | Status<br>Running<br>Running                                     | Action(s)<br>Restart Stop<br>Restart Stop                                 |
| PRM Service<br>Service<br>Pes<br>NgInx<br>PanLNode  | Version #<br>1.3.0-2.0.0<br>1.20.2<br>16.13.2                       | Status<br>Running<br>Running<br>Running                          | Action(s)<br>Restart Stop<br>Restart Stop<br>Restart Stop                 |
| PRM Service<br>Pes<br>NgInx<br>PanLNode<br>Postgre  | es Status<br>Version #<br>1.3.0-2.0.0<br>1.20.2<br>16.13.2<br>12.16 | Status<br>Running<br>Running<br>Running<br>Configured            | Action(s)<br>Restart Stop<br>Restart Stop<br>Restart Stop                 |
| PRM Servic<br>Service<br>Pes<br>NgInx<br>PanLNode<br>Postgre<br>Redis   | Version #<br>1.3.0-2.0.0<br>1.20.2<br>16.13.2<br>12.16<br>3.0.6     | Status<br>Running<br>Running<br>Running<br>Configured<br>Running | Action(s)<br>Restart Stop<br>Restart Stop<br>Restart Stop<br>Restart Stop |

b. A confirmation window is displayed. Click [OK].



c. A message indicating the upgrade status – Initiated, is displayed.

|   | PRM Superv  | /isor | Console    |         |             |                |  |
|---|---|-------|------------|---------|-------------|----------------|--|
|   | Home<br>Upload Package<br>PanLHubs status<br>Set Date & Time<br>Domain & Certificate<br>Reset Password<br>Log Out |       |            |         |             |                |  |
| • | upgrade status - Initiated  |       |            |         |             |                |  |
|   | PRM Status  |       |            |         |             |                |  |
|   | Name  |       | State      | Status  | Version #   | Action(s)      |  |
|   | PRM   |       | Configured | Running | 5.0.0-2.2.0 | Restart Update |  |

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d. Upon successful upgrade, the **Rollback** function is displayed under the **Action(s)**.

|           | PRM Supervisor Co   | onsole     |         |             |                  |
|-----------|---|------------|---------|-------------|------------------|
| • • • • • | Home<br>Upload Package<br>PanLHubs status<br>Set Date & Time<br>Domain & Certificate<br>Reset Password<br>Log.Out<br>PRM Status |            |         |             |                  |
|           | Name  | State      | Status  | Version #   | Action(s)        |
|           | PRM   | Configured | Running | 5.0.0-2.2.0 | Restart Rollback |



# 4.4 Rollback Package

Rollback function is used to return back to a previous package of PRM Server or PanLHub.

To Rollback package -

a. Click *Home* link; Under Action(s), click *Rollback* link.

| PRM Supervis  | or Console |         |             |                  |
|---|------------|---------|-------------|------------------|
| Home<br>Upload Package<br>PanLHubs status<br>Set Date & Time<br>Domain & Certificate<br>Reset Password<br>Log Out<br>PRM Status |            |         |             |                  |
| Name  | State      | Status  | Version #   | Action(s)        |
| PRM   | Configured | Running | 4.4.0-3.0.3 | Restart Rollback |

b. A confirmation window is displayed. Click [OK].

| 192.168.0.160:8081 says            |    |        |
|------------------------------------|----|--------|
| Are you sure you want to rollback? |    |        |
|                                    | ОК | Cancel |

c. The rollback progress window is displayed.

| PRM S  | upervisor                         | Console    |         |             |         |                     |
|--|-----------------------------------|------------|---------|-------------|---------|---------------------|
| Home     Upload Packac     PanLHubs stat     Set Date & Tim     Domain & Cert     Reset Passwor     Log Out     PRM Status | 1 <u>0</u><br>10<br>ificate<br>rd |            |         |             |         |                     |
| Name   |                                   | State      | Status  | Version #   | Acti    | on(s)               |
| PRM  |                                   | Configured | Running | 4.4.0-3.0.3 | Rest    | art <u>Rollback</u> |
| PRM Service  | es Status                         |            |         |             |         |                     |
| Service  | Version #                         | _          | Statu   | IS          | Action( | s) (                |
| PanLNode   | 16.13.2                           |            | Runn    | ling        | Restart | Stop                |
| Pes  | 1.2.0-3.2.0                       |            | Runn    | ing         | Restart | Stop                |
| Redis  | 3.0.6                             |            | Runn    | ing         | Restart | Stop                |
| Postgre  | 12.4                              |            | Confi   | igured *    |         |                     |
| Http-Server  | 4.4.0-3.0.0                       |            | Runn    | ling        | Restart | Stop                |
| NgInx  | 1.20.2                            |            | Runn    | ing         | Restart | Stop                |



d. Upon successful rollback, the Version # column is updated with the previous version of PRM Server or PanLHub.

| PRM Superviso  | or Console |         |             |           |
|--|------------|---------|-------------|-----------|
| Home     Upload Package     PanLHubs status     Set Date & Time     Domain & Certificate     Reset Password     Log Out     PRM Status |            |         |             |           |
| Name   | State      | Status  | Version #   | Action(s) |
| PRM  | Configured | Running | 4.4.0-3.0.2 | Restart   |



# 4.5 View PanLHub Status

Displays all the PanLHub status that has been paired to the PRM server. If a new PanLHub package is uploaded, admin can manually trigger PanLHub firmware update.

To view PanLHub Status, click **PanLHubs status** link.

| PRM Supervisor  | Console       |              |              |         |         |          |          |
|---|---------------|--------------|--------------|---------|---------|----------|----------|
| Home<br>Upload Package<br>PanLHubs status<br>Set Date & Time<br>Domain & Certificate<br>Reset Password<br>Log Out |               |              |              |         |         |          |          |
| PanLHub Status  | IP Address    | ls<br>Paired | Role         | Status  | Action  |          |          |
| PH8007B201017000014   | 192.168.0.188 | False        | UnConfigured | Stop    |         |          |          |
| PH80000009171900001   | 192 168 0 128 | True         | Configured   | Running | Restart | Shutdown | Download |

The PanLHub pairing status as well as the IP address are displayed. Take note that PanLHubs that are not paired to the PRM Server before will not appear. To update the PanLHub firmware, select **Update** under **Action**.



## 4.6 Set Date & Time

To set the PRM system date and time, click **Set Date & Time** link.

|   | PRM Supervisor Console                            |
|---|---|
|   | Home<br>Upload Package<br>Pani Hubs status        |
|   | Set Date & Time                                   |
| • | Domain & Certificate<br>Reset Password<br>Log Out |

**Manually** set the date and time on which the PRM runs on or select or **Network Time Protocol (NTP)** reference. Click **[Set]**. Upon setting the time, reboot the PanL Hub.

| Timezone       |   |
|----------------|---|
| Asia/Singapore | ~ |
| NTP/Manual     |   |
| Manual 🗸       |   |
| Set Date       |   |
| 2023-11-08     |   |
| Set Time       |   |
| 10:42:59       |   |

| Set Date & Time |   |
|-----------------|---|
| Timezone        |   |
| Asia/Singapore  | ~ |
| NTP/Manual      |   |
| NTP V           |   |
| Set             |   |

Set Date & Time - NTP

Set Date & Time - Manual

Upon changing the date and time, PanL Node Service of PRM server and all the PanL Hubs should be re-started.





# 4.7 Domain & Certificate

This interface is used to update manage domains (update new WMC/API domain name) and Certificate (SSL certificate, SSL certificate key).

### **Domain Management**

a. Click Domain & Certificate link.

|   | PRM Supervisor Console |
|---|------------------------|
|   | Home                   |
| • | Upload Package         |
| • | PanLHubs status        |
| • | Set Date & Time        |
| • | Domain & Certificate   |
| • | Reset Password         |
| • | Log Out                |
|   |                        |

b. Enter the WMC Domain Name; API Domain Name; Click [Choose File] and select SSL Certificate / Certificate Key; Click [Save].

| Rin oupervisor conso  | le   |
|---|--|
| ome<br>pload Package<br>an LHubs status<br>et Date & Time<br>omain & Certificate<br>eset Password<br>po Qut       |  |
|   |  |
| Domain Management   | web1.prm.local   |
| vomain Management WMC Domain Name API Domain Name   | web1.prm.local   |
| WMC Domain Name<br>API Domain Name<br>SSL Certificate (pem)   | web1.prm.local       prm1.prm.local       Choose File     certificate.pem  |
| Domain Management WMC Domain Name API Domain Name SSL Certificate (pem) SSL Certificate Key (pem)                 | web1.prm.local         prm1.prm.local         Choose File         certificate.pem         Choose File         private_key.pem  |
| API Domain Management WMC Domain Name API Domain Name SSL Certificate (pem) SSL Certificate Key (pem) SSL Ciphers | web1.prm.local         prm1.prm.local         Choose File       certificate.pem         Choose File       private_key.pem         HIGH:taNULL:IMD5       Image: Comparison of the second secon |

c. Upon saving the domain information, click Home link; Restart Nginx service.

| Home  |  |  |
|---|--|--|
| Ipload Package  |  |  |
| PanLHubs status   |  |  |
| Set Date & Time   |  |  |
| Domain & Certificate  |  |  |
| Reset Password  |  |  |
| og Out  |  |  |
|   | e enect.   |  |
| Domain Management   | e enec.  |  |
| Domain Management   | web1.prm.local   |  |
| Domain Management<br>WMC Domain Name<br>API Domain Name   | web1.prm.local prm1.prm.local  |  |
| Domain Management<br>WMC Domain Name<br>API Domain Name<br>SSL Certificate (pem)                              | web1.prm.local<br>prm1.prm.local<br>Choose File No file chosen                                       |  |
| Domain Management<br>WMC Domain Name<br>API Domain Name<br>SSL Certificate (pem)<br>SSL Certificate Key (pem) | web1.prm.local prm1.prm.local Choose File No file chosen Choose File No file chosen                  |  |
| Domain Management WMC Domain Name API Domain Name SSL Certificate (pem) SSL Certificate Key (pem) SSL Ciphers | web1.prm.local prm1.prm.local Choose File No file chosen Choose File No file chosen HIGH:laNULL:IMD5 |  |

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|-------------------|
| Document Feedback |



| Service     | Version #   | Status     | Action(s)    |
|-------------|-------------|------------|--------------|
| Pes         | 1.3.0-2.0.0 | Running    | Restart Stop |
| NgInx       | 1.20.2      | Running    | Restart Stop |
| PanLNode    | 16.13.2     | Running    | Restart Stop |
| Postgre     | 12.16       | Configured |              |
| Redis       | 3.0.6       | Running    | Restart Stop |
| Http-Server | 5.0.0-2.2.0 | Running    | Restart Stop |

- d. Update the hosts file for the new domain (optional, in case if Local DNS is not available).
- e. Update the certificate. Refer to <u>Update Certificate</u> for more details.

### OR

### Upload BRT Certificate Package

a. To upload BRT Certificate Package, click [Choose File], select the certificate package. Upon selecting a valid package, click [Upload].

| Upload BRT   | Certificate Package |
|--------------|---------------------|
| Choose Files | PRM_Cert.tar.gz     |
| Upload       | -                   |

b. An appropriate message is displayed if the upload is successful.

| load Package                          |                            |  |
|---------------------------------------|----------------------------|--|
| <u>nLHubs status</u><br>t Date & Time |                            |  |
| main & Certificate                    |                            |  |
| g Out                                 |                            |  |
| tificate package is saved             |                            |  |
| omain Management                      |                            |  |
| VMC Domain Name                       | web1.prm.local             |  |
| API Domain Name                       | prm1.prm.local             |  |
| SSL Certificate (pem)                 | Choose File No file chosen |  |
| SSL Certificate Key (pem)             | Choose File No file chosen |  |
| SSL Ciphers                           | HIGH:!aNULL:!MD5           |  |
| SSL Session Cache                     | shared:SSL:10m             |  |
|                                       |                            |  |

c. Update the certificate. Refer to <u>Update Certificate</u> for more details.



### Update Certificate

Upon updating the Domain Management or uploading the BRT Certificate Package, update the certificate. To update the certificate,

a. Click *Home* link; Under **Action(s)**, click *UpdateCertificate* link.

|           | PRM Supervisor Co   | onsole     |         |             |                           |
|-----------|---|------------|---------|-------------|---------------------------|
| • • • • • | Home<br>Upload Package<br>PanLHubs status<br>Set Date & Time<br>Domain & Certificate<br>Reset Password<br>Log Out<br>PRM Status |            |         |             |                           |
|           | Name  | State      | Status  | Version #   | Action(s)                 |
|           | PRM   | Configured | Running | 5.0.0-2.2.0 | Restart UpdateCertificate |

b. A confirmation window is displayed. Click **[OK]**.

| ОК | Cancel |
|----|--------|
|    | ОК     |

c. Upon successful update, the **Rollback** function is displayed under the **Action(s)**.

| PRM Supervise   | or Console | Π.      |             |                             |  |
|---|------------|---------|-------------|-----------------------------|--|
| Home     Upload Package     PanLHubs status     Set Date & Time     Domain & Certificate     Reset Password     Leo Out |            |         |             |                             |  |
| PRM Status<br>Name  | State      | Status  | Version #   | Action(s)                   |  |
| PRM   | Configured | Running | 5.0.0-2.2.0 | Restart RollbackCertificate |  |



### **RollbackCertificate**

RollbackCertificate function is used (if required) to return back to a previous BRT Certificate package.

- To RollbackCertificate
- a. Click *Home* link; Under Action(s), click *Rollback* link.

| PRM Supervisor  | Console    | 7.      |             |                             |
|---|------------|---------|-------------|-----------------------------|
| Home Upload Package PanLHubs status Set Date & Time Domain & Certificate Reset Password Log Out |            |         |             |                             |
| PRM Status  |            |         |             |                             |
| Name  | State      | Status  | Version #   | Action(s)                   |
| PRM   | Configured | Running | 5.0.0-2.2.0 | Restart RollbackCertificate |

b. A confirmation window is displayed. Click **[OK]**. Upon successful rollback, the certificate is removed.





### 4.7.1 Domain Name Configuration

After the PRM Server Software installation, the network administrator MUST configure the DNS to resolve the following Domains:

- ✓ web.<your\_domain\_name>
- ✓ prm.<your\_domain\_name>

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 DNS Server
- Global DNS Service

### 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 2016 is used in the example below –

| 🚊 DNS Manager   |   |                          |                          |           | - 0 X   |
|---|---|--------------------------|--------------------------|-----------|---|
| File Action View Help   |   |                          |                          |           |   |
| 🗢 🔿 🙍 📷 🗙 🖻 😹 🖪 📷 🏾 🖬   |   |                          |                          |           |   |
| A DNS   | Name  | Туре                     | Data                     | Timestamp | Actions   |
| BRTCHIPDEMO   | (same as parent folder)   | Start of Authority (SOA) | [5], brtchipdemo.dmbrtch | static    | prm.local   |
| Cached Lookups     Gines     Gi | (same as parent folder)   | Name Server (NS)         | brtchipdemo.dmbrtchipd   | static    | More Actions  |
|   | web   | Host (A)<br>Host (A)     | 192,168.0.160            | static    | prm 🔺   |
| G Intchijscen     G Intchijscel     G Intchijscel     G Intchijscel     G Intchijscel     G Intchijscel     G Intchijscel     milocal     milocal     milocal     G Reverse Lookopy Zones     G Reverse Lookopy Zones     BRTCHIPDEMO.DMBRTCHIPDEMO.LOCAL   | prm Properties       Host (A) Security       Host (Jose parent domain if left blank):       Image: Security       Fully qualified domain name (FQDN).       pm.pm.local       IP address:       192.168.0.160       Update associated pointer (PTR) record       Delet this record when it becomes state       Record time stamp.       Time to live (TTL):     1.0.0       OK     Cancel | ? ×                      |                          |           | More Actions           Image: Actions |
|   |   |                          |                          |           |   |



### 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-

| C A                   | u / daa madadad  | en m (control / due | er an an an an an tradition of the base              | na lan                  | 8 A A  | m 🏠   | 6 6                       |      |
|-----------------------|------------------|---------------------|--|-------------------------|--|---|---------------------------|------|
|                       | s://acc.godaddy. | .comy controly and  | managementroomainivam                                | e= com                  | A A U  | ψ τ=  | v⊞ .28                    | î    |
| 0                     |                  |                     |  |                         | Help Center  |   | Ŕ                         | 1    |
| Domains \vee          |                  | DNS N               | lanagemen  | t                       |  |   |                           |      |
| Portfolio             |                  |                     | -  | 12000                   |  | 1 102 503   | - 1                       | 1    |
| DNS                   |                  |                     | .com   | ② Domain                | Settings Select  | a different d                                     | lomain                    |      |
| Transfers             |                  | DNS Reco            | rds Forwarding                                       | Nameservers             | Premium DNS H  | fostnames   | DNSSE                     |      |
| Services              | ~                | DNS records         | define how your domain b                             | ehaves, like showing vo | ur website content and   | 1 deliverina v                                    | vour email.               | 1    |
|                       |                  | BLUE LEADER         |  |                         |  |   |                           | - 11 |
|                       |                  | Add New Re          | cord   |                         |  |   |                           | - 1  |
| Tools NEW             | ~                | Add New Re          | scord  |                         |  |   |                           |      |
| Tools NEW<br>Settings | v<br>v           | Add New Re          | scord  |                         | ∓ Fi   | ters ····   | Actions                   | U    |
| Tools NEW             | ~ ~              | Add New Re          | scord  |                         | ₹ Fo   | ters …  | Actions                   | I    |
| Tools NEW<br>Settings | ~ ~              | Add New Re          | rpe ① Name ①   | Data 🕐                  | ₹ Fa   | ters …<br>Delete                                  | Actions<br>Edit           | I    |
| Tools NEW<br>Settings | ~ ~              | Add New Re          | rpe ① Name ①<br>@                                    | Data 🕐                  | ੁ Fai<br>TTL ①<br>1 Hour   | ters<br>Delete                                    | Actions<br>Edit           | I    |
| Tools NEW<br>Settings | ~ ~              | Add New Re          | rpe ① Name ①<br>@<br>@                               | Data ③                  | ∓ Fa<br>TTL ③<br>1 Hour<br>600 seconds                               | ters ···<br>Delete                                | Actions<br>Edit           | l    |
| Tools NEW<br>Settings | ~ ~              | Add New Re          | rpe ① Name ①<br>@<br>@<br>prm                        | Data ()<br>Parked       | হু Fal<br>TTL ①<br>1 Hour<br>600 seconds<br>1 Hour                   | ters<br>Delete<br>Delete                          | Actions<br>Edit<br>@<br>@ | I    |
| Tools NEW<br>Settings | ~ ~              | Add New Re          | ppe ⑦ Name ⑦<br>@<br>@<br>prm<br>web                 | Data ⑦<br>Parked        | ₹ Fa<br>TTL ①<br>1 Hour<br>600 seconds<br>1 Hour<br>1 Hour           | ters<br>Delete<br>10<br>10<br>10<br>10            | Actions<br>Edit           | I    |
| Tools NEW<br>Settings | ~ ~              | Add New Re          | rpe ③ Name ④<br>@<br>@<br>prm<br>web<br>autodiscover | Data ③<br>Parked        | ∓ Fa<br>TTL ①<br>1 Hour<br>600 seconds<br>1 Hour<br>1 Hour<br>1 Hour | ters ····<br>Delete<br>10<br>10<br>10<br>10<br>10 | Actions<br>Edit           | 1    |

# 4.8 Other PRM Supervisor Console Functions

### **PRM Server**

| Function                 | Description                                       |
|--------------------------|---|
| Restart                  | To restart the PRM Server                         |
| <u>Update</u>            | To upgrade the PRM Server Package                 |
| <u>Rollback</u>          | To return back to the previous PRM Server Package |
| <u>UpdateCertificate</u> | To update BRT Certificate                         |
| RollbackCertificate      | To rollback BRT Certificate                       |

Table 3 – Other PRM Supervisor Console Functions (PRM Server)

### **PRM Services**

| Function | Description                        |
|----------|------------------------------------|
| Restart  | To restart any of the PRM Services |
| Stop     | To stop any of the PRM Services    |

Table 4 – Other PRM Supervisor Console Functions (PRM Services)



# 5. PanLHub Supervisor Console

The PanLHub Supervisor Console provides administrative users configuration and software update functions as below:

# 5.1 PanLHub Supervisor Console Functions

|   | ib Superv   | visor Console   |  |
|---|---|---|--|
| lome<br>Ipload Package<br>Leset Password<br>og Out<br>PanLHub St: | e<br>d<br>atus  |   |  |
| UUID  |   | State Status Version #                                | Action(s)  |
| Ensources.  | 171900001   | Configured Running 5.0.0-3.0.0                        | Restart Shutdown Download  |
| 11100000000   |   |   | Reset  |
| 'anLHub Se<br>Service   | rvices Status   | Status  | Reset Action(s)  |
| 'anLHub Se<br>Service<br>Redis                                    | vices Status<br>Version #<br>4.0.2                                      | Status<br>Running                                     | Action(s) Restart Stop   |
| 'anLHub Se<br>Service<br>Redis<br>SQLite                          | Version #<br>4.0.2<br>3.1.13  | Status<br>Running<br>Configured                       | Reset Action(s) Restart Stop ResetConfiguration ResetDB  |
| vanLHub Se<br>Service<br>Redis<br>SQLite<br>PanLNode              | rvices Status<br>Version #<br>4.0.2<br>3.1.13<br>11.15.0                | Status<br>Running<br>Configured<br>Running            | Reset       Action(s)       Restart     Stop       ResetConfiguration     ResetDB       Restart     Stop                                 |
| vanLHub Se<br>Service<br>Redis<br>SOLite<br>PanLNode<br>PanLPower | rvices Status<br>Version #<br>4.0.2<br>3.1.13<br>11.15.0<br>1.6.0-3.0.0 | Status<br>Running<br>Configured<br>Running<br>Running | Reset       Action(s)       Restart     Stop       Restart     Stop       Restart     Stop       Restart     Stop       Restart     Stop |

### PanLHub

| Description  |
|--|
| To upload PanLHub Software Package                       |
| To update PanLHub package upon uploading                 |
| To return back to a previous package of PanLHub software |
| To restart the PanLHub                                   |
| To shut down the PanLHub                                 |
| To download / backup the PanLHub package                 |
| To reset the PanLHub to factor settings                  |
|  |

Table 5 – PanLHub Supervisor Console Functions

### PanLHub Services

| Function           | Description                            |
|--------------------|--|
| Restart            | To restart any of the PanLHub Services |
| Stop               | To stop any of the PanLHub Services    |
| ResetConfiguration | To reset the SQLite configuration      |
| ResetDB            | To reset the SQLite database           |
|                    |  |

Table 6 – PanLHub Supervisor Console Functions (PanLHub Services)

Product Page Document Feedback

# 6. Appendix

# 6.1 Glossary of Terms, Acronym & Abbreviations

| Term or Acronym | Definition or Meaning   |
|-----------------|---|
| API             | An Application Programming Interface, is a set of defined rules that enable different applications to communicate with each other.  |
| IP              | The Internet Protocol (IP) is the network layer communications protocol in the Internet protocol suite for relaying datagrams across network boundaries.  |
| NTP             | Network Time Protocol is a networking protocol for clock synchronization between computer systems over packet-switched, variable-latency data networks.   |
| PRM             | The PanL Room Manager is designed to support from large to small organizations to automatically handle meeting room booking issues such as room booking conflicts, ghost bookings, under-utilized rooms, etc. |
| SSL             | Secure Sockets Layer is an encryption-based Internet security protocol.   |
| URL             | A Uniform Resource Locator, colloquially known as an address on the Web, is a reference to a resource that specifies its location on a computer network and a mechanism for retrieving it.                    |

# 6.2 List of Figures

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# BRTSys

# **Revision History**

| Document Title     |   | RETEVE AN 040 REM Licer Cuide - 4 REM and Pant Hub Supervisor |
|--------------------|---|---|
| Document nite      | · | DRTSTS_AN_040 FRM OSEL GUIDE - 4. FRM and Fancing Supervisor  |
|                    |   | Console   |
| Document Reference | : | BRTSYS_000111   |
| No.                |   |   |
| Clearance No.      | : | BRTSYS#072  |
| Product Page       | : | https://brtsys.com/prm/                                       |
| Document Feedback  | : | Send Feedback   |

| Revision    | Changes  | Date       |
|-------------|--|------------|
| Version 1.0 | Initial release for PanL Room Manager (PRM) V2.5.0   | 14-08-2023 |
| Version 2.0 | Updated release for PanL Room Manager (PRM)<br>Ver.3.1.1<br>[PRM Supervisor (5.1.1-3.1.0)<br>PanLHub Supervisor Console (5.1.0 – 3.2.0)] | 04-07-2024 |