AIPHONE® 0817

GT SERIES
Multi-Tenant Entry Security

Quick Start Installation Guide

Table of Contents

STANDARD SYSTEM WIRING: AUDIO ONLY

Loop Wiring Method
Max. of 25 stations per loop / trunk

**

Max. wire distance from distribution point to any tenant is 980' (300m).
Max. cumulative wire distance is 8200' (2500m).
Refer to the GT Series Installation Manual for complete wire distance information.

Homerun Wiring Method

WIRE TYPE

: Audio Line
20AWG (0.8mm)
2 Cond. Solid Non
Shielded
PE Insulated

: Video Line
18AWG (1.0 mm)
2 Cond. Solid Non
Shielded
PE Insulated

POWER

PS24
PS-2420UL
PS-2420
PS-2420S
PS-2420BF

PT
Power Transformer
(Use proper power
for the Strike or Mag
Lock being used.)
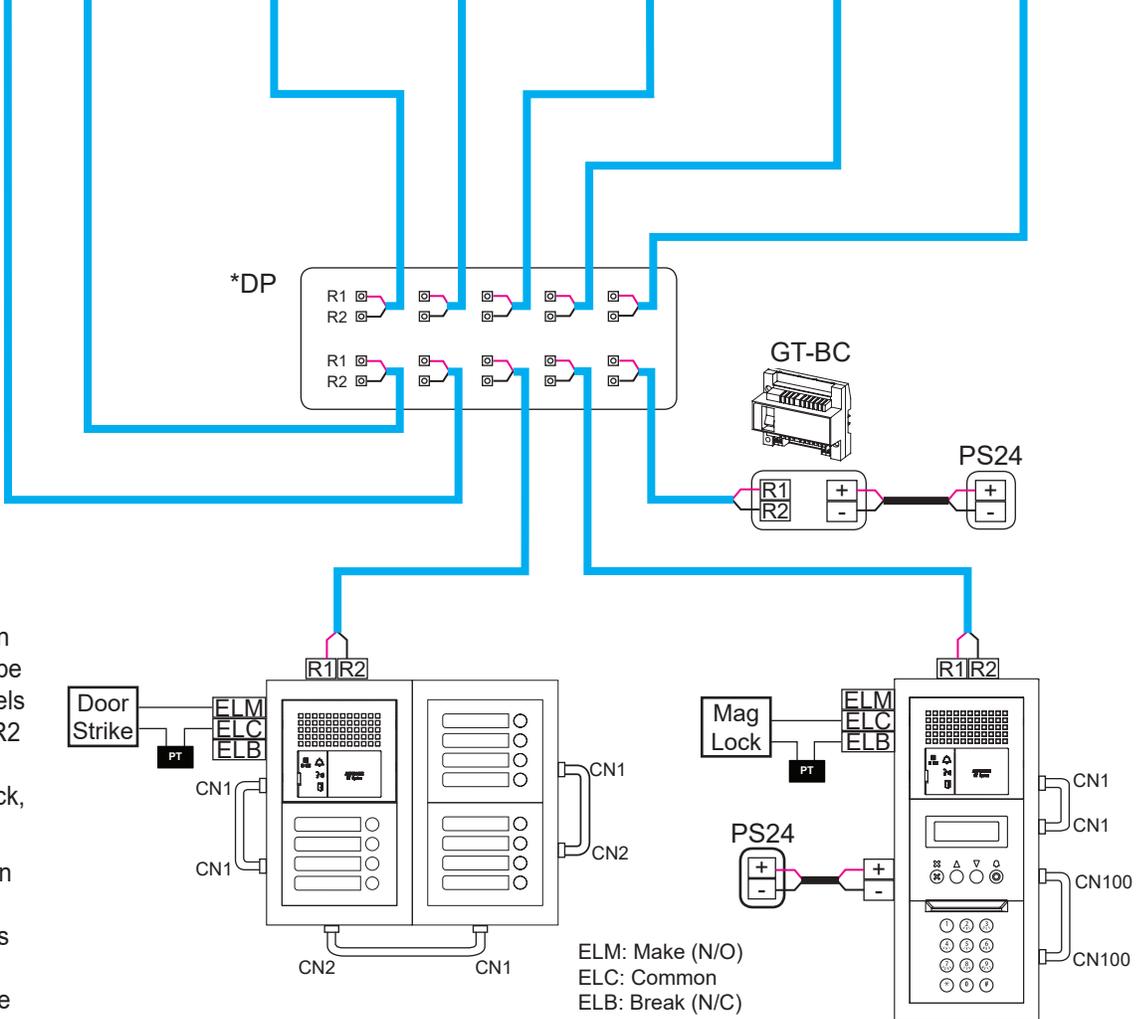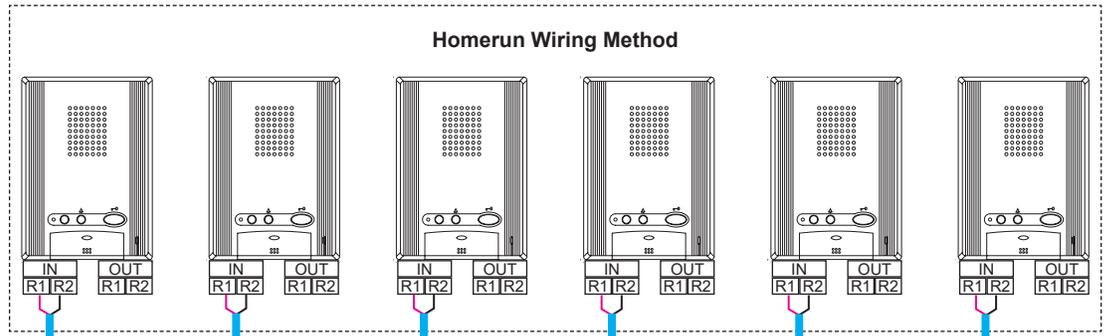
*DP

GT-BC

PS24

* Distribution Point:
(GTW-DP) Available in
N. America. This can be
any device that parallels
or commons the R1 / R2
connection. (Terminal
strip, punch down block,
wire nuts, etc.)

**Tenant stations shown
are the GT-1A. The
GT-1D tenant stations
can also be used
and wired in the same
manner.

Door Strike

Mag Lock

ELM
ELC
ELB

ELM
ELC
ELB

PT

PT

PS24

CN1

CN1

CN2

CN1

CN1

CN1

CN100

CN100

ELM: Make (N/O)
ELC: Common
ELB: Break (N/C)

3

STANDARD SYSTEM WIRING: AUDIO / VIDEO

Loop Wiring Method
Max. of 25 stations per loop. SW1 switch must be set to A on last station in the wire loop.
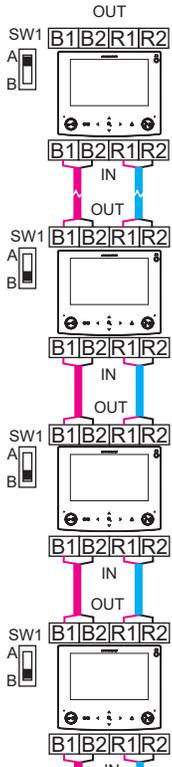
Homerun Wiring Method
Max. of 6 GT-4Zs per trunk. SW1 switch must be set to A on last GT-4Z in the wire trunk. Each tenant station homeruns to a GT-4Z and its SW1 switch must be set to A.
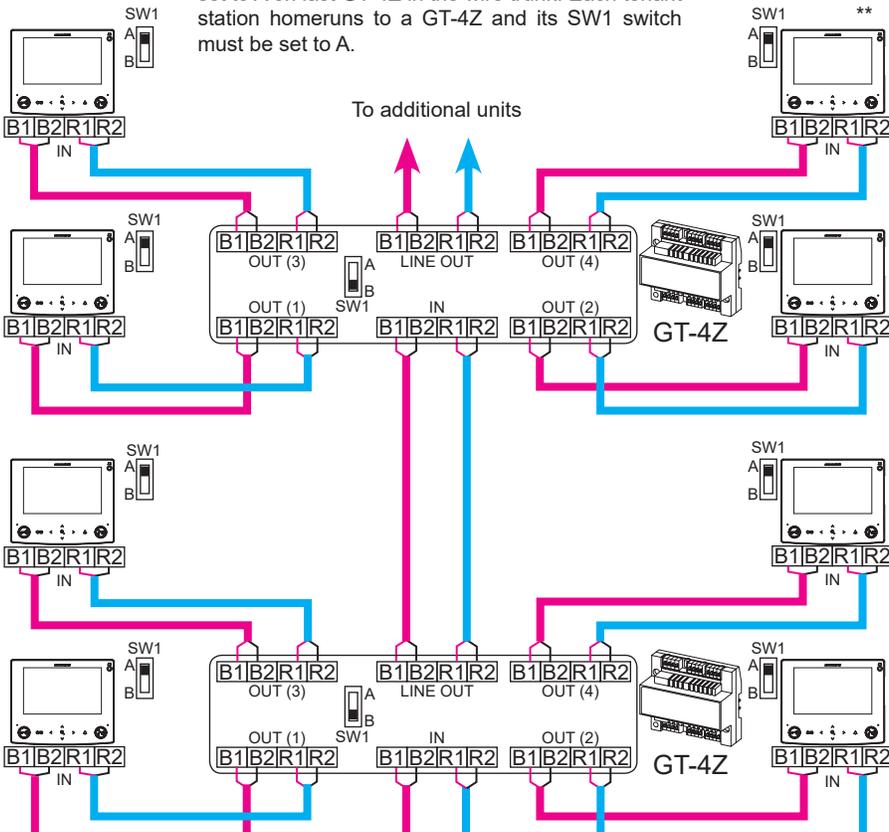
T-Tap Wiring Method
Max. of 25 stations per trunk with GT-1Z. SW1 switch must be set to A on each tenant station.
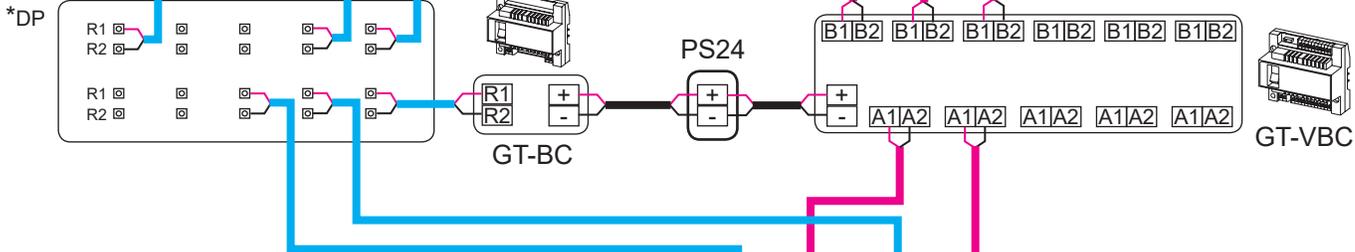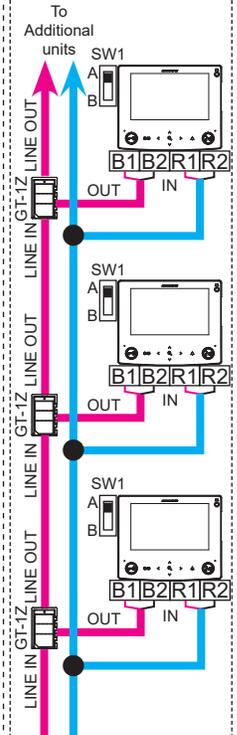
Use Sxx (S1-S48) for link ID settings for addressing tenants via dip switch method in a standard system (refer to page 8 for settings).

* Distribution Point: (GTW-DP) Available in N. America. This can be any device that parallels or commons the R1/R2 connection. (Terminal strip, punch down block, wire nuts, etc.)

** Tenant stations shown are the GT-1C7(-L). The GT-1M3(-L) and GT-2C(-L) tenant stations can also be used and wired in the same manner. **Note:** GT-2C(-L) requires a separate PS-24 power supply.

ELM: Make (N/O)
ELC: Common
ELB: Break (N/C)

EXPANDED SYSTEM WIRING

GT-VBX

GT-VB

GT-DB(-V,-VN)

ID1 ID2 ID3 ID4

A1/A2 (multiple)

COMMON 1

Connection for video entrance modules 5-8

Connection for video entrance modules 9-16

COMMON 2

CN2

GT-VBC   GT-VBC

A1/A2 ... B1/B2

SUB 1   SUB 2

EXP STD

Video outputs to tenant stations and / or GT-4Z or GT-1Z units. Max. of 25 tenants per trunk and 125 total tenants per GT-VBC.

PS24

GT-BC   PS24

*DP

R1/R2

CN1

COMMON 1

COMMON 2

Connection for audio entrance modules 9-16

SUB 1A   SUB 1B   SUB 2A   SUB 2B

GTW-LC

USB

Use Axxx (A1-A250) for link ID settings for addressing tenants on Sub 1A/1B via the dip switch method in an expanded system.

Use Bxxx (B251-B500) for link ID settings for addressing tenants on Sub 2A/2B via the dip switch method in an expanded system.

PS24   GT-BCXB-N

GT-BC

*DP

R1/R2

Audio output to tenant stations and / or GT-4Z units. Max. of 25 tenants per trunk and 125 total tenants per GT-BC.

* Distribution Point: (GTW-DP) Available in N. America. This can be any device that parallels or commons the R1/R2 connection. (Terminal strip, punch down block, wire nuts, etc.)

GT-MKB-N   GT-MKB-N

OUT R1/R2   IN R1/R2
IN R1/R2   OUT R1/R2
IN B1/B2   OUT B1/B2
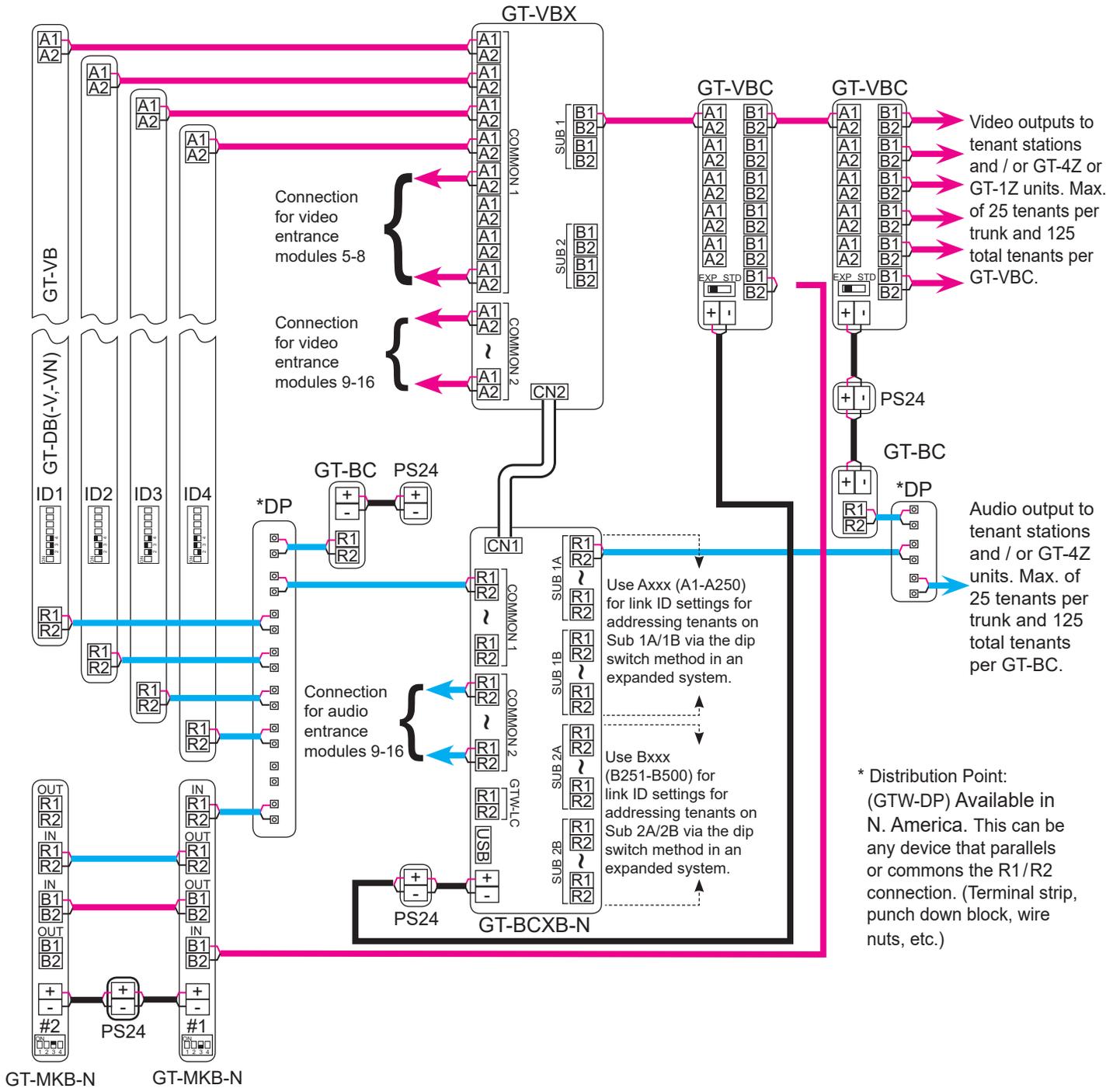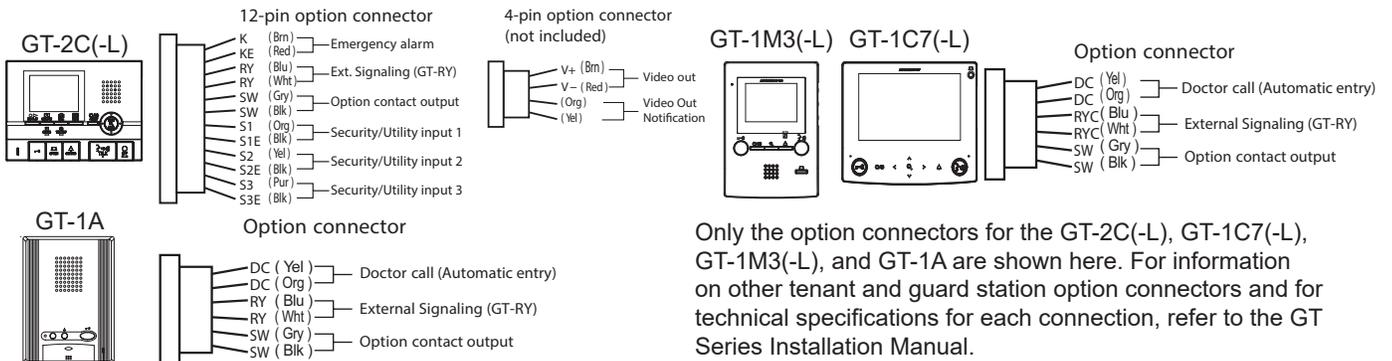OUT B1/B2   IN B1/B2

#2   PS24   #1

OPTION CONNECTOR WIRING: TENANT STATIONS

GT-2C(-L)

12-pin option connector

K (Brn) / KE (Red) — Emergency alarm
RY (Blu) / RY (Wht) — Ext. Signaling (GT-RY)
SW (Gry) / SW (Blk) — Option contact output
S1 (Org) / S1E (Blk) — Security/Utility input 1
S2 (Yel) / S2E (Blk) — Security/Utility input 2
S3 (Pur) / S3E (Blk) — Security/Utility input 3

4-pin option connector (not included)

V+ (Brn) / V− (Red) — Video out
(Org) / (Yel) — Video Out Notification

GT-1M3(-L)   GT-1C7(-L)

Option connector

DC (Yel) / DC (Org) — Doctor call (Automatic entry)
RYC (Blu) / RYC (Wht) — External Signaling (GT-RY)
SW (Gry) / SW (Blk) — Option contact output

GT-1A

Option connector

DC (Yel) / DC (Org) — Doctor call (Automatic entry)
RY (Blu) / RY (Wht) — External Signaling (GT-RY)
SW (Gry) / SW (Blk) — Option contact output

Only the option connectors for the GT-2C(-L), GT-1C7(-L), GT-1M3(-L), and GT-1A are shown here. For information on other tenant and guard station option connectors and for technical specifications for each connection, refer to the GT Series Installation Manual.
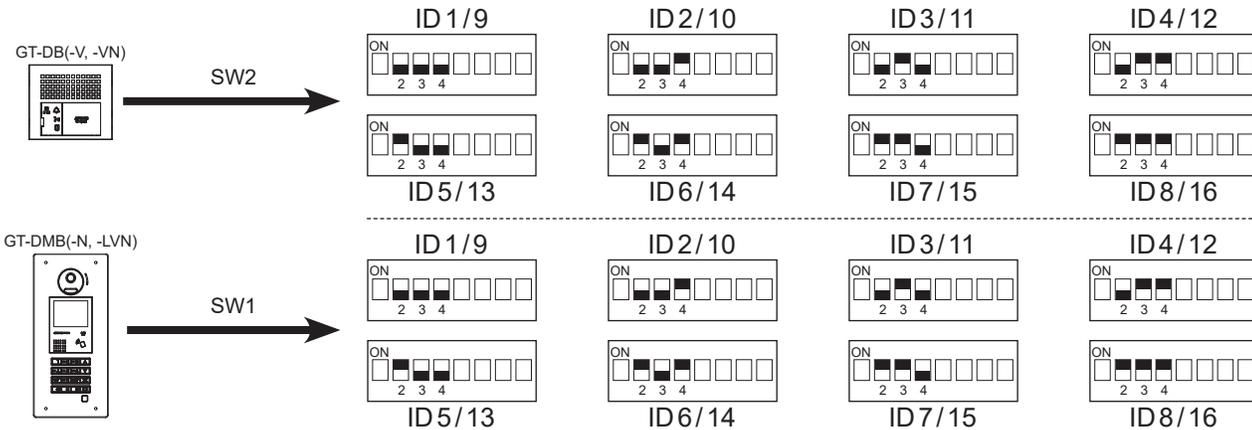
DIP SWITCH SETTINGS: ENTRANCE & GUARD STATION ID SETTINGS

NOTE:
When GT-MCX is included in the system, ID#1 cannot be used for entrance/guard stations.

Entrance ID Setting:

Use **SW2** on the GT-DB(-V, -VN) module or **SW1** on the GT-DMB(-N, -LVN) entrance station to set the ID for each entry panel. Switches 2 - 4 are used for this setting.

GT-DB(-V, -VN)   SW2

ID 1/9	ID 2/10	ID 3/11	ID 4/12
ID 5/13	ID 6/14	ID 7/15	ID 8/16

GT-DMB(-N, -LVN)   SW1

ID 1/9	ID 2/10	ID 3/11	ID 4/12
ID 5/13	ID 6/14	ID 7/15	ID 8/16

Guard ID Setting:

Use **SW2** on the GT-MKB-N guard station to set the ID setting for each guard. Switch 3 is used for this setting.

GT-MKB-N   SW2

ID 1/3   ID 2/4
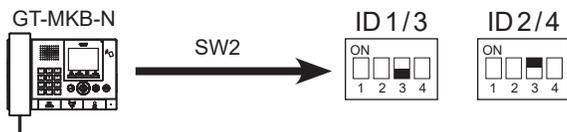
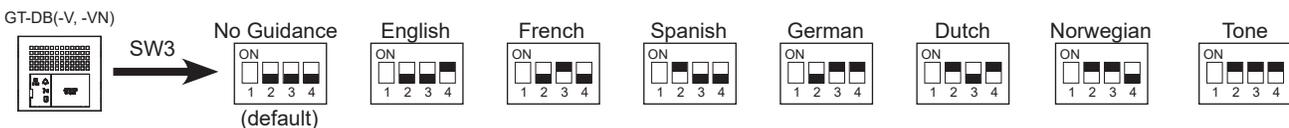# DIP SWITCH SETTINGS: ENTRANCE STATION

NOTE:
When using the GT-DMB(-N, -LVN), the settings listed below will be done via the keypad / display while in programming mode. Refer to the GT Series Installation Manual for instructions.

Make sure power is removed from the system before making any dip switch changes.

Guidance Language Setting:

The audio guidance is set to off (No Guidance) by default. Use **SW3** on the GT-DB(-V, -VN) module to set the appropriate language. Only switches 2, 3, & 4 are used for this setting.

GT-DB(-V, -VN)   SW3

No Guidance (default)   English   French   Spanish   German   Dutch   Norwegian   Tone

Entrance Monitoring:

Use switch 5 of **SW2** on the GT-DB(-V, -VN) module to enable / disable entrance monitoring. Default is "Monitoring not allowed." Enabling will allow video tenant stations to 'call up' the entrance station and monitor the door area.
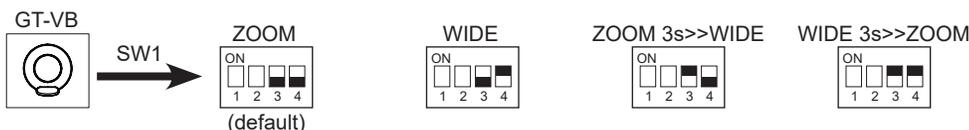
GT-DB(-V, -VN)   SW2

☐ Monitoring allowed
■ Monitoring not allowed (default)
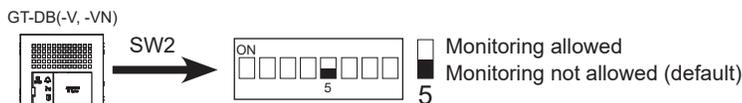
Camera View:

Use switches 3 & 4 of **SW1** on the GT-VB module to set the camera view. The default setting is Zoom.
Zoom 3s>>Wide: Image starts zoomed and after 3 seconds goes wide.
Wide 3s>>Zoom: Image starts wide and after 3 seconds zooms.

GT-VB   SW1

ZOOM (default)   WIDE   ZOOM 3s>>WIDE   WIDE 3s>>ZOOM

PROGRAMMING: ENTERING TENANT INFORMATION

The GT-DMB(-N, -LVN), GT-MKB-N, and modular digital entrance stations must be programmed with the resident's information before tenant stations can be addressed. The resident's information can be entered using the keypad or by using the GT Setup Tool software.

Programming entrance stations using the GT Setup Tool for Windows

Step 1: Open the GT Setup Tool and click the **Create new site** radio button. If already in the program, under <u>File</u>, select <u>Create new site(N)</u>.
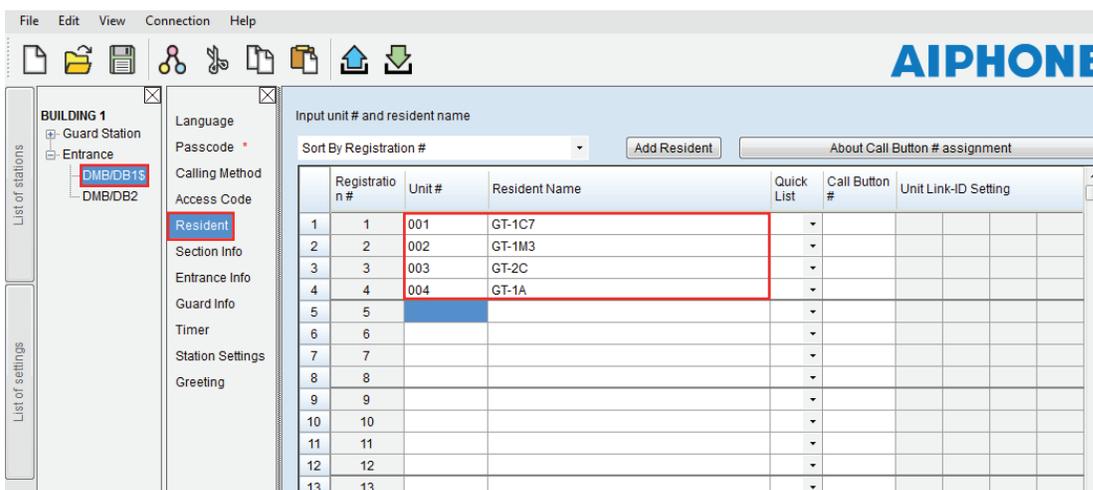
Step 2: Leave the standard options as shown, then click $\boxed{\text{Next}}$.
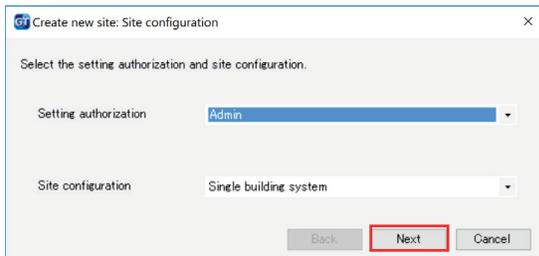
Step 3: Enter a **Site Name** and indicate if **GT-MCX** or **GT-BCXB** will be used. From the drop down menu, select the **Number of Guard** and the **Number of Entrances**, then click $\boxed{\text{OK}}$.
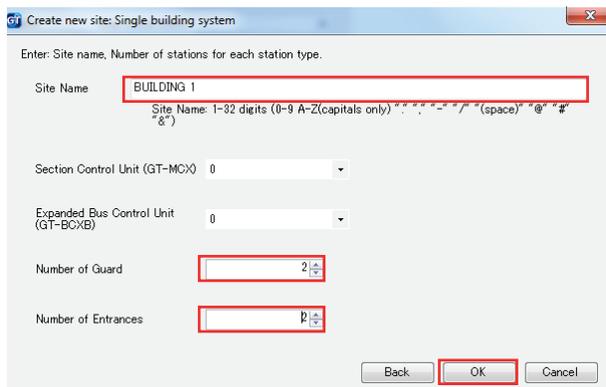
Step 4: Click the $\boxed{\text{+ Entrance}}$ to show all entrance stations, then select the entrance station (DMB/DB1) to program. Click **Resident**. Enter a **Unit #** (required) and **Resident Name** (not required, but must type in all Caps).

Step 5: Click Save 🖫, and then $\boxed{\text{Yes}}$.

Use the dip switch method of programming shown below when installing the GT-1C7(-L), GT-1M3(-L), or GT-2C(-L). When installing the GT-1A or GT-1D, use the handshake method shown on pages 14-15 after uploading tenant, entrance, and guard information to the stations. If using a mix of stations that allow for dip switch settings (GT-1C7(-L), GT-1M3(-L), and GT-2C(-L)) and stations that do not (GT-1A, GT-1D), it is recommended to program all stations using the handshake method.

Step 1: Create an ID correlation table for the tenant stations using a binary / SW2 Dip Switch - ID chart.
The chart below is for up to 48 stations in a non-expanded system.
The full Dip Switch chart can be downloaded from http://www.aiphone.net/product/support/gt/

Dip Switch	ID	Dip Switch	ID	Dip Switch	ID	Dip Switch	ID
	S1		S13		S25		S37
	S2		S14		S26		S38
	S3		S15		S27		S39
	S4		S16		S28		S40
	S5		S17		S29		S41
	S6		S18		S30		S42
	S7		S19		S31		S43
	S8		S20		S32		S44
	S9		S21		S33		S45
	S10		S22		S34		S46
	S11		S23		S35		S47
	S12		S24		S36		S48

Step 2: Set the SW2 dip switches found on the back of the GT-1C7(-L), GT-1M3(-L), and GT-2C(-L) according to the correlation table created in the previous step.

GT-1C7(-L) GT-1M3(-L) GT-2C(-L)

SW2
On
Off
128 64 32 16 8 4 2 1
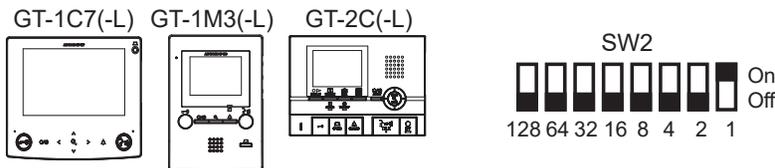
Step 3: Enter the ID from the correlation table in Step 1 into the Unit Link-ID Setting for each station.
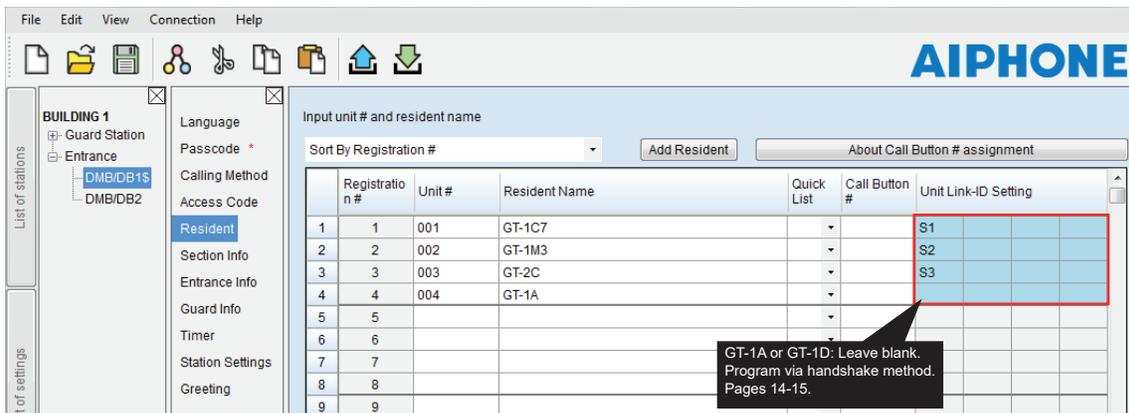
**Step 4:** Click Save 🖫, and then Yes.

Programming Guard/Entrance Information

Step 1: Click the + Guard Station , then select the guard station to program. Click **Entrance Info**, then enter 1 for the **Section ID.** Enter the **Entrance ID** (1-16), **Entrance #,** and **Entrance Name** (not required).
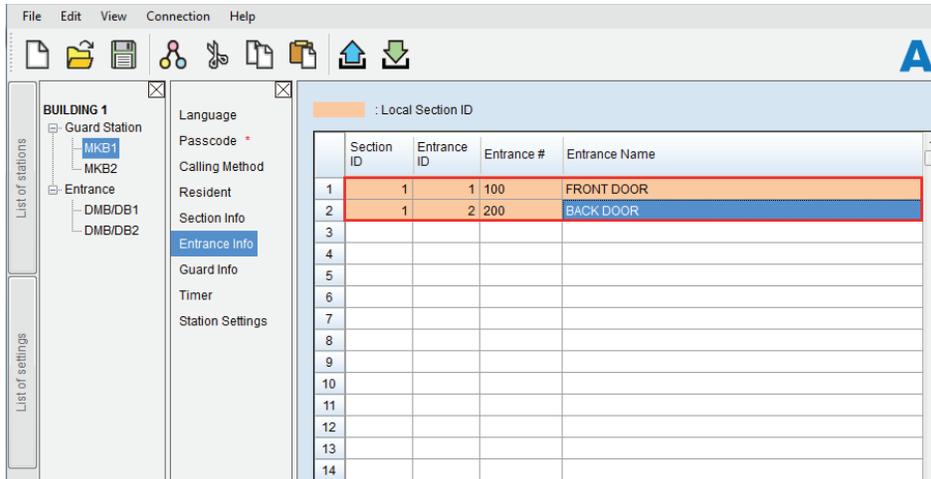
Step 2: Click **Guard Info**, then enter 1 for the **Section ID**. Enter the **Guard ID** (1-4), **Guard #** and **Guard Name** (not required) of the other guard station in the system.
Note: This step is not required if only using 1 guard station.
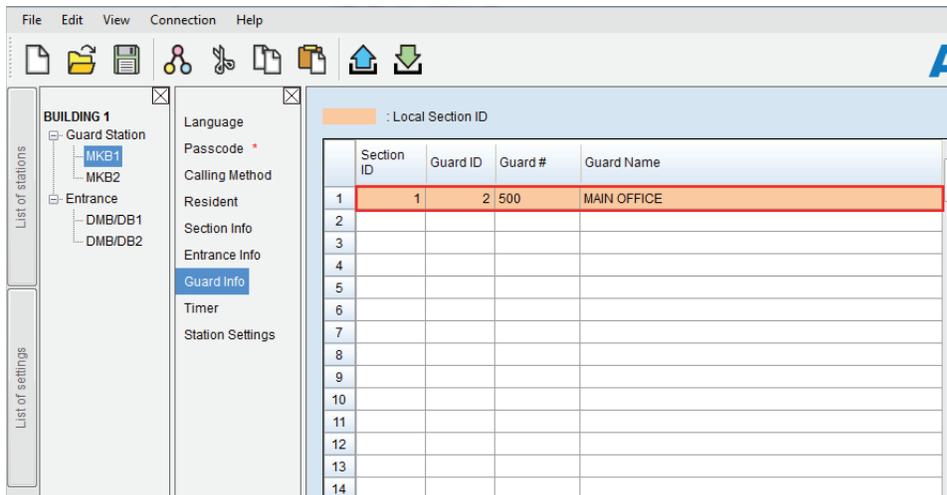
Step 3: Repeat Steps 1 and 2 for each guard station.

Step 4: Click the +Entrance ,then select an entrance station. Repeat Step 2 to enter the Guard Info for each entrance station. Since entrance stations cannot call other entrance stations, only guard station information will be entered for the entrance station.

Step 5: Click Save 🖫, and then Yes .

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## PROGRAMMING: TRANSFER DATA TO OTHER GUARD/ENTRANCE STATIONS

NOTE:
When installing the **GT-1A**, **GT-1D**, or when not using dip switch setting method we recommend the following.
- Upload resident information to entrance/guard station (page 11 Step 1-2)
- Use handshake method to establish Link ID (page 14-15)
- Download settings from entrance/guard station
- Compare and Merge with remaining entrance/guard stations (below)

Compare and Merge (copy data to other devices in the system)

Step 1: Click **Compare and Merge Settings** ⚙ to copy data to other entrance and guard stations.

Step 2: In the **Comparison-1** column, select the entrance station/guard station radio button where resident information was programmed. In the **Comparison-2** column, select the desired entrance station/guard station that data is to be copied to. Click Compare .
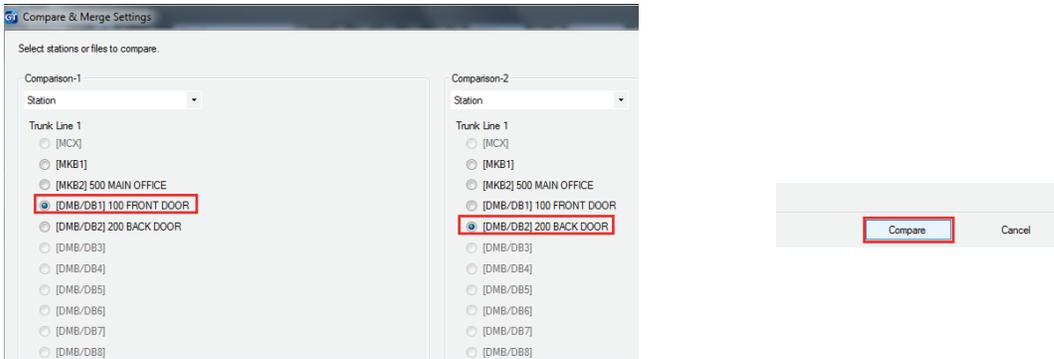
Step 3: Click **Resident**, then click << / >> to copy all resident data. Click Yes on the **Do you want to overwrite all of the data?** popup. Click Update . Click **Save**, then Yes .
Click **Select comparison** and repeat until the Resident information has been copied to all desired entrance stations and guard stations.
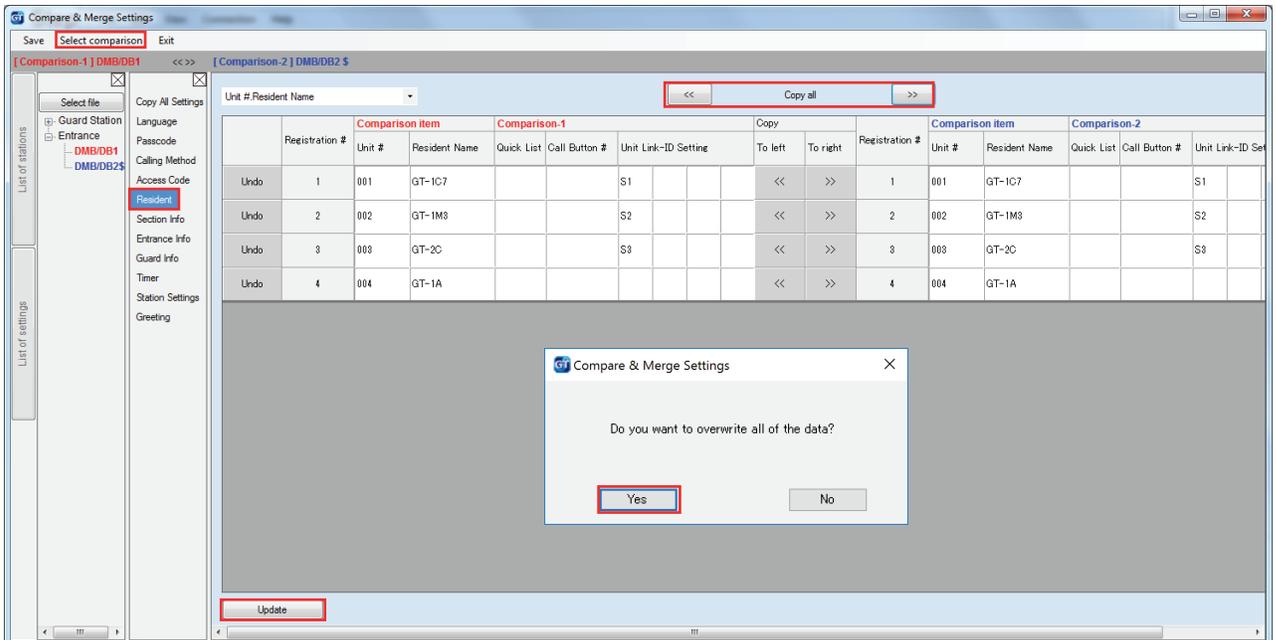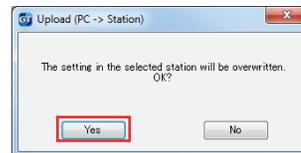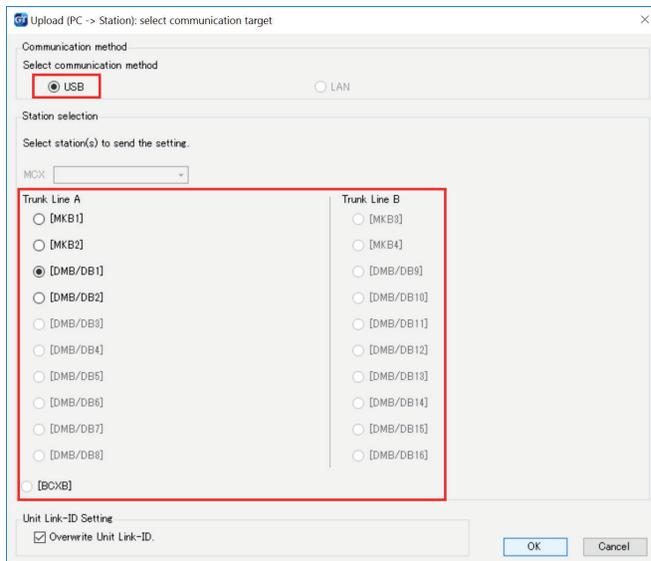

Step 4: When done, click **Exit**.

PROGRAMMING: UPLOADING TO STATIONS VIA USB

Step 1:   Click Upload 🏠.

Step 2:   From the Upload (PC -> Station) menu, select the USB radio button. Select the desired station's radio button and click ｜OK｜. Click ｜Yes｜ in the popup window asking if it's ok to overwrite the selected station. Enter the Admin Passcode then click ｜OK｜ (default Admin Passcode is *1111).

**Step 3:**   Repeat for all entance/guard stations.

GT SETUP TOOL FOR ANDROID™: DOWNLOAD FROM GOOGLE PLAY™

The Aiphone GT Setup Tool for Android app can be used to create and upload setting files to the GT-DMB(-N, -LVN) and GT-DB-VN entrance stations as well as the GT-MKB-N guard station. It is recommended to use the GT Support Tool for Windows for the initial setting file creation and loading to the stations, then use the app for downloading and editing the setting file when changes need to be made. The following sections will cover how the app can be used for downloading and editing the setting file, then uploading. For complete information on using the app for programming, refer to the GT SYSTEM SETTING MANUAL/Aiphone GT Setup Tool for Android.

GT SETUP TOOL FOR ANDROID: DOWNLOADING SETTINGS
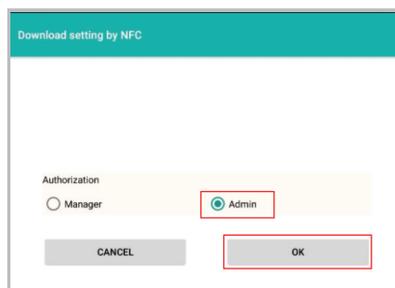
Step 1

Open the Aiphone GT Setup Tool for Android and tap DOWNLOAD SETTING BY NFC.
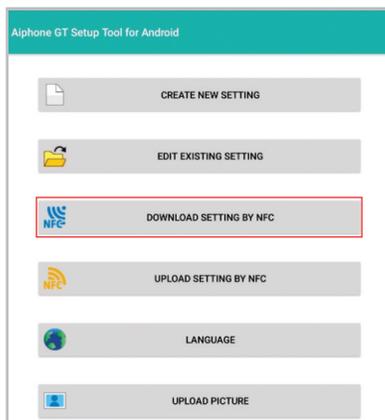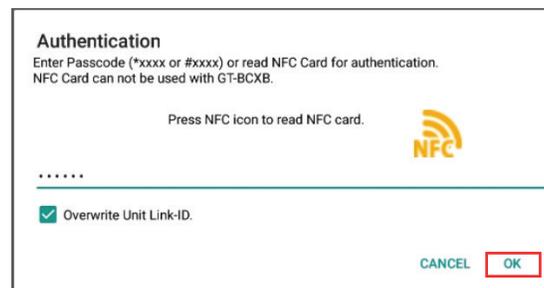

Step 2

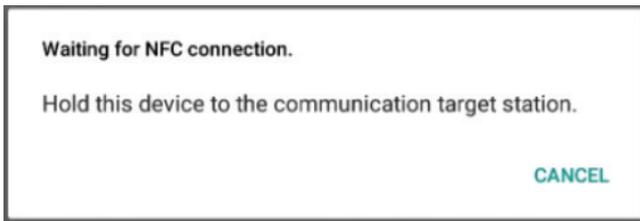Tap the appropriate authorization level and then tap OK.

Step 3

Enter the appropriate passcode (default: Admin *1111, Manager #2222). Ensure that Overwrite Unit Link-ID settings is checked, then tap OK.

Step 4

Hold the Android device to the target station to download the settings.

> **Waiting for NFC connection.**
>
> Hold this device to the communication target station.
>
> CANCEL

Step 5

The settings will begin to download to the Android device. Continue holding device to the station until complete.
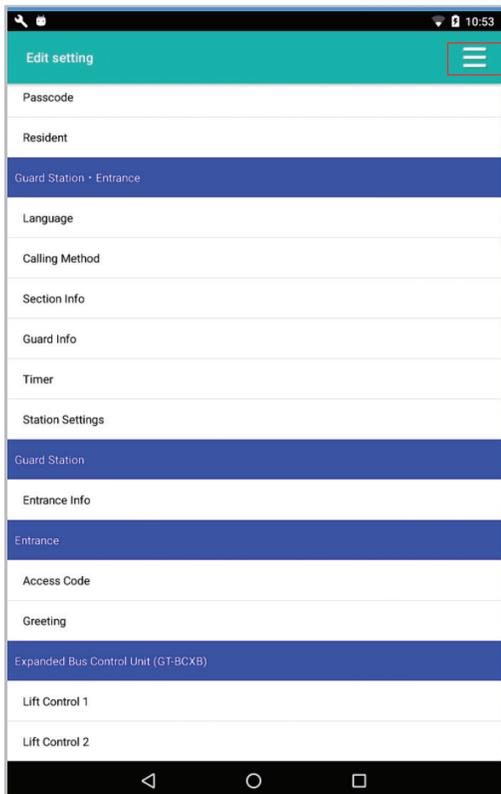
> **Communicating by NFC**
>
> Downloading the setting.
>
> 75%   129/172
>
> CANCEL
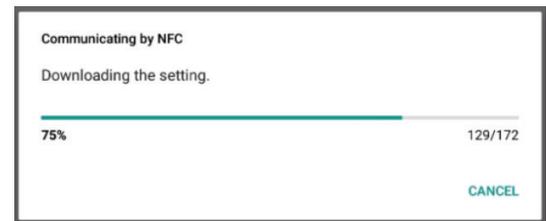
Step 6

A confirmation message will appear on the Android device if the download was successful.

> **Confirm**
>
> Download succeeded.
> MKB:Ver 01.00
>
> OK

GT SETUP TOOL FOR ANDROID: EDITING SETTINGS

Step 1

Make the necessary edits to the downloaded setting file.

> Edit setting   ≡
>
> Passcode
> Resident
> **Guard Station · Entrance**
> Language
> Calling Method
> Section Info
> Guard Info
> Timer
> Station Settings
> **Guard Station**
> Entrance Info
> **Entrance**
> Access Code
> Greeting
> **Expanded Bus Control Unit (GT-BCXB)**
> Lift Control 1
> Lift Control 2

Step 2

Tap the menu button, then tap Save.

> Save
> Download
> Upload

Step 3

Enter a file name (i.e. Job Name) and tap OK.

> **Save as new**
> Set file name.
>
> Following characters can not be used in the file name. [< > : * ? " / \ |]
>
> CANCEL   OK
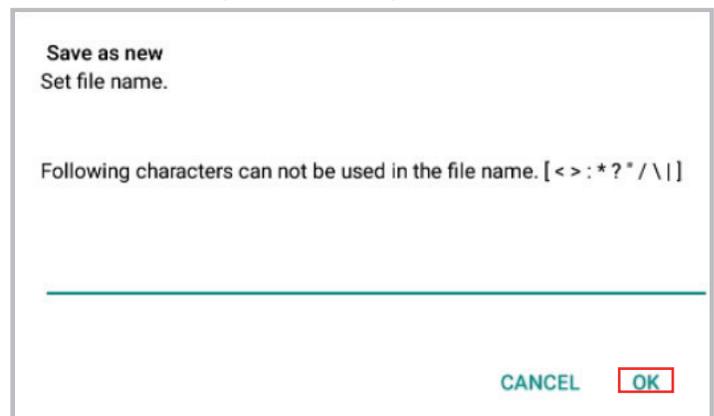
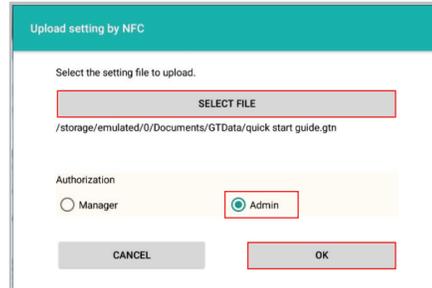## GT SETUP TOOL FOR ANDROID: UPLOADING SETTINGS

Step 1

Tap UPLOAD SETTING
BY NFC.
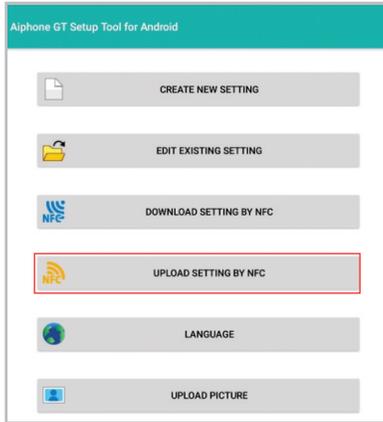
Step 2

Select the file to upload, tap the
appropriate authorization level, then
tap OK.

Step 3

Enter the appropriate passcode
(default: Admin *1111, Manager #2222).
Ensure that Overwrite Unit Link-ID settings is
checked, then tap OK.
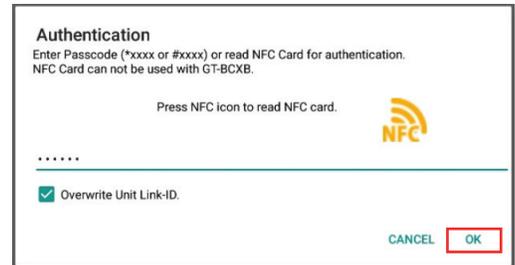
Step 4

Hold the Android device to the target station
to upload the settings.
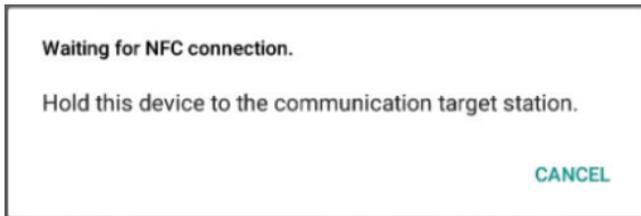
Step 5

The settings will begin to upload to the
target station. Continue holding device to the
station until complete.

Step 6

A confirmation message will appear on the Android
device if the upload was successful.

PROGRAMMING

When programming a system that includes the GT-1A or GT-1D, use the handshake method for programming all stations in the system.
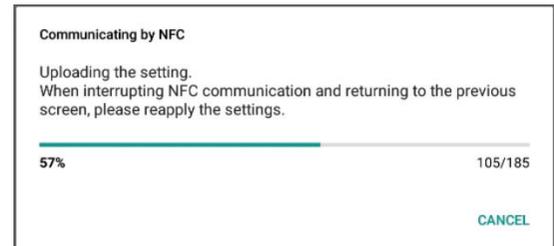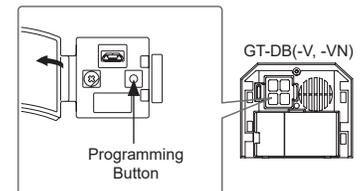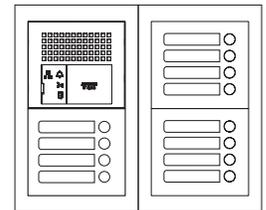
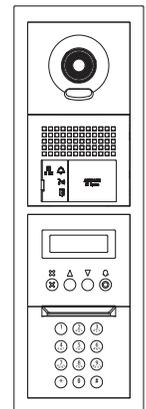## PROGRAMMING: ADDRESSING TENANTS VIA HANDSHAKE METHOD

Direct Select / Push Button Entrance Station Addressing

Step 1: To enter programming mode, use a small screwdriver to push and release button under the rubber cap on the front of the GT-DB(-V, -VN) audio module. The IN USE LED will begin flashing, then remain steadily lit. Once lit, the entry panel is in programming mode.

Step 2: At a tenant station, push and release the **TALK** button or pick up the handset to establish communication with the entrance station in programming mode.

Step 3: Push and release the desired Call Button on the entrance station to assign the button to the tenant station that is active. A blip tone will be heard.

> **Do not press and hold the Call Button as doing so will clear the memory for this button.**

Step 4: Turn off or hang up tenant station (GT-1A/GT-1C7(-L)/GT-1M3(-L): Push **TALK** again, GT-2C(-L): Push **OFF**).

Step 5: Repeat steps 2-4 for remaining tenant stations.

Step 6: To exit programming, push the button under the rubber cap on the GT-DB(-V, -VN) audio module again and the IN USE LED will turn off. The system is now ready for use.

GT-DB(-V, -VN)

Programming Button

GT Digital Display Entrance Station Addressing

Step 1: Using the GT Setup Tool for Windows, upload the program file to the GT-DB(-V, -VN) with the USB cable provided. Click ⬆ then select the station to upload to and click OK.

Step 2: To enter programming, use a small screwdriver to push and release button under the rubber cap on the front of the GT-DB(-V, -VN) audio module. The IN USE LED will begin flashing, then remain steadily lit. Once lit, the entrance station is in programming mode. The LCD will show "CONNECTING" while in programming mode.

Step 3: At a tenant station, push and release the **TALK** button or pick up the handset to establish communication with the entrance station in programming mode.

Step 4: Scroll to the station number to be programmed or manually enter the number on the keypad. When the tenant station number is displayed, push and release the **Bell** button ⬠ to assign the address to the tenant station that is active. A blip tone will be heard.

> **Do not press and hold the Bell button as doing so will clear the memory for this number.**

Step 5: Turn off or hang up tenant station (GT-1A/GT-1C7(-L)/GT-1M3(-L): Press **TALK** again, GT-2C(-L): Press **OFF**).

Step 6: Repeat steps 3-5 for remaining tenant stations.

Step 7: To exit programming, push the button under the rubber cap on the GT-DB(-V, -VN) audio module again and the IN USE LED will turn off. The system is now ready for use.

Step 8: Download the program file to the GT Setup Tool from the GT-DB(-V, -VN) audio module with the USB cable provided. Click ⬇ then select the station to download from and click OK.

Step 9: Click 💾 to save the file to the computer.

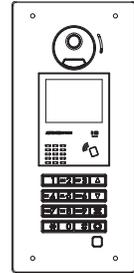## GT-DMB-N(-LVN) Entrance Station Addressing

Step 1: Using the GT Setup Tool for Windows, upload the program file to the GT-DMB-N(-LVN) with the USB cable provided. Click 🔼 then select the station to upload to and click OK.

Step 2 : While in standby mode, enter **#** plus the Admin ID code (default is *1111). Re-enter ID code.

Step 3: Use the up / down arrows and scroll to PROGRAMMING. Push the **Bell** button ⬤ twice to enter programming mode. The IN USE LED will begin flashing, then remain steadily lit. Once lit, the entry panel is in programming mode. The LCD will show "CONNECTING" while in programming mode.

Step 4: At a tenant station, push and release the **TALK** button or pick up the handset to establish communication with the entrance station in programming mode.

Step 5: Scroll to the station number to be programmed or manually enter the number on the keypad. When the tenant station number is displayed, push and release the **Bell** button ⬤ to assign the address to the tenant station that is active. A blip tone will be heard.
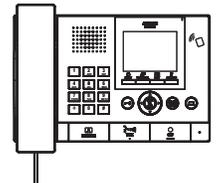
> **Do not press and hold the Bell button as doing so will clear the memory for this number.**

Step 6: Turn off or hang up tenant station (GT-1A/GT-1C7(-L)/GT-1M3(-L): Press **TALK** again, GT-2C(-L): Press **OFF**).

Step 7: Repeat steps 4-6 for the remaining tenant stations.

Step 8: To exit programming, press the "**X**" button twice on the panel to return to the main menu (the IN USE LED will turn off). Scroll to QUIT and press the **Bell** button ⬤. The system is now ready for use.

Step 9: Download the program file to the GT Setup Tool from the GT-DMB-N(-LVN) with the USB cable provided. Click 🔽 then select the station to download from and click OK.

Step 10: Click 💾 to save the file to the computer.

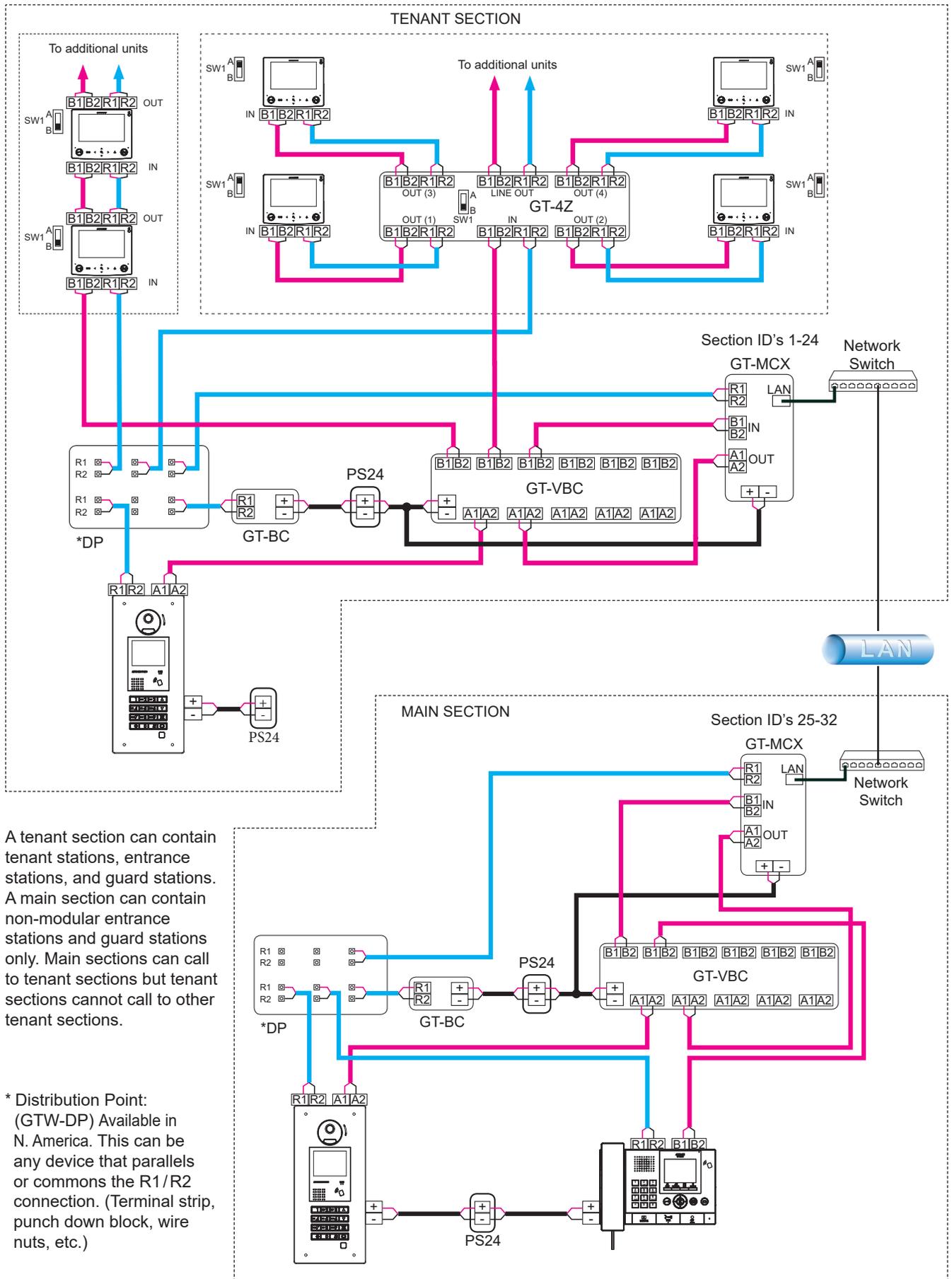## GT-MKB-N Video Guard Station Addressing

Step 1: Using the GT Setup Tool for Windows, upload the program file to the GT-MKB-N with the USB cable provided. Click 🔼 then select the station to upload to and click OK.

Step 2: While in standby mode, press Setting. Scroll down to ADVANCED SETTINGS and press the Zoom/Wide button.

Step 3: Use the up/down arrows and scroll to PROGRAM MODE. Press the Zoom/Wide button. Enter the Admin passcode (*1111). Re-enter the passcode again.

Step 4: Scroll to PROGRAMMING and select PROGRAMMING again from the next screen.

Step 5: The screen will show CONNECTING. When the orange LED on the unit remains steadily lit, the unit will be in programming mode.

Step 6: At a tenant station, push and release the **TALK** button or pick up the handset to establish communication with the GT-MKB-N in programming mode.

Step 7: Scroll to the station number to be programmed or manually enter the number on the keypad. When the tenant station number is displayed, push and release the **Zoom/Wide** button to assign the address to the tenant station that is active. A blip tone will be heard.

> **Do not press and hold the Zoom/Wide button as doing so will clear the memory for this number.**

Step 8: Turn off or hang up tenant station (GT-1A/GT-1C7(-L)/GT-1M3(-L): Press **TALK** again, GT-2C(-L): Press **OFF**).

Step 9: Repeat steps 6-8 for the remaining tenant stations.

Step 10: To exit programming, press the **SETTING** button twice to return to the main menu. Scroll to QUIT and press the Zoom/Wide button to return to standby. The system is now ready for use.

Step 11: Download the program file to the GT Setup Tool from the GT-DMB-N with the USB cable provided. Click 🔽 then select the station to download from and click OK.

Step 12: Click 💾 to save the file to the computer.

MULTI-BUILDING SYSTEM WIRING WITH GT-MCX

TENANT SECTION

To additional units

To additional units

SW1 A/B

B1 B2 R1 R2 OUT

SW1 A/B

B1 B2 R1 R2 IN

SW1 A/B

B1 B2 R1 R2 OUT

B1 B2 R1 R2 IN

IN B1 B2 R1 R2

SW1 A/B

IN B1 B2 R1 R2

SW1 A/B

B1 B2 R1 R2 IN

SW1 A/B

B1 B2 R1 R2 IN

B1 B2 R1 R2 OUT (3)

B1 B2 R1 R2 LINE OUT

B1 B2 R1 R2 OUT (4)

GT-4Z

OUT (1) B1 B2 R1 R2

SW1 A/B

IN B1 B2 R1 R2

OUT (2) B1 B2 R1 R2

Section ID's 1-24

GT-MCX

Network Switch

R1 R2

LAN

B1 B2 IN

B1 B2 B1 B2 B1 B2 B1 B2 B1 B2 B1 B2

A1 A2 OUT

R1 R2

R1 R2

GT-VBC

+ –

PS24

R1 R2

GT-BC

+ –

+ –

+ –

A1 A2 A1 A2 A1 A2 A1 A2 A1 A2
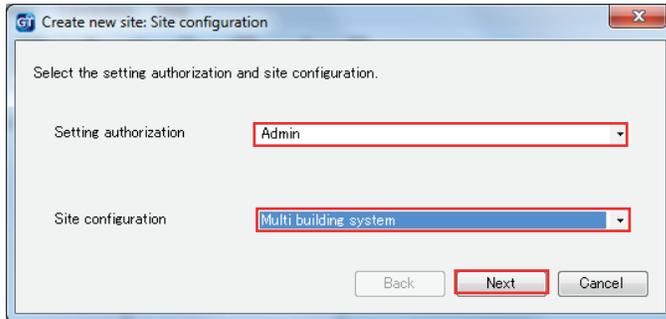
*DP

R1 R2 A1 A2

PS24

+ –

+ –

LAN

A tenant section can contain tenant stations, entrance stations, and guard stations. A main section can contain non-modular entrance stations and guard stations only. Main sections can call to tenant sections but tenant sections cannot call to other tenant sections.

MAIN SECTION

Section ID's 25-32

GT-MCX

Network Switch

R1 R2

LAN

B1 B2 IN

A1 A2 OUT

+ –

* Distribution Point: (GTW-DP) Available in N. America. This can be any device that parallels or commons the R1/R2 connection. (Terminal strip, punch down block, wire nuts, etc.)

R1 R2

R1 R2

PS24

GT-BC

R1 R2

+ –

+ –

B1 B2 B1 B2 B1 B2 B1 B2 B1 B2 B1 B2

GT-VBC

+ –

A1 A2 A1 A2 A1 A2 A1 A2 A1 A2

*DP

R1 R2 A1 A2

R1 R2 B1 B2

+ –

PS24

+ –

+ –

GT-MCX: Network Adaptor

The GT-MCX connects a GT system to a network, allowing the system to be remotely programmed or multiple GT systems to be tied together. When used for multiple systems, each system now becomes known as a section and requires its own GT-MCX. There are two types of sections; the tenant section and the main section. A tenant section can contain tenant stations, entrance stations, and guard stations. A main section can contain the GT-DMB(-N, -LVN) entrance stations and GT-MKB-N guard stations only.
Note: Main sections can call to tenant sections but tenant sections cannot call to other tenant sections.

DIP SWITCH SETTINGS: Tenant Section and Main Section

IMPORTANT

When the GT-MCX is included in the system, it will occupy ID#1 for both the entrance stations and guard stations. Set the entrance stations and guard stations in the system starting with ID#2. Refer to page 6 for ID settings. If the dip switches are not set correctly on the entrance stations and guard stations, you will not be able to upload any settings. The entrance stations, guard stations, and the GT-BCXB-N expansion adaptor must be set to multi-building mode when including the GT-MCX network adaptor. Set the switches as shown below per station.

SW2 on GT-DB(-V, -VN) SW1 on GT-DMB(-N, -LVN) SW2 on GT-MKB-N SW2 on GT-BCXB-N

Each GT-MCX must be given a unique section ID and IP address. The section ID and IP address of each GT-MCX will be determined by turning off DHCP and the SW2 dip switch setting. The IP address of the GT-MCX will be 192.168.1.50 + the ID number.

Example: 192.168.1.50 + ID 1 = 192.168.1.51
192.168.1.50 + ID 25 = 192.168.1.75

Step 1: Set SW3 dip switch 1 to ON to turn off DHCP.

IMPORTANT

SW3 (default)   SW3 (DHCP Off)

Step 2: Set the SW2 dip switches 2-6 to the desired section ID based on the section type (see chart below).

GT-MCX

← SW3
← SW2
← Power switch ON/OFF

ID's 1-24: Tenant Sections

Dip Switch	ID	Dip Switch	ID	Dip Switch	ID	Dip Switch	ID
	1		2		3		4
	5		6		7		8
	9		10		11		12
	13		14		15		16
	17		18		19		20
	21		22		23		24

ID's 25-32: Main Sections

Dip Switch	ID	Dip Switch	ID	Dip Switch	ID	Dip Switch	ID
	25		26		27		28
	29		30		31		32

Step 3: Set Power switch to ON or cycle power when done.

SYSTEM PROGRAMMING WITH MULTIPLE GT-MCX: MULTI-BUILDING

Step 1: Open the GT Setup Tool and click the **Create new site** radio button. If you are already in the GT Setup Tool, click **File**, then select **Create new site(N)**.

Step 2: Select the desired **Setting authorization** and select Multi building system from the **Site configuration** dropdown. Click Next.
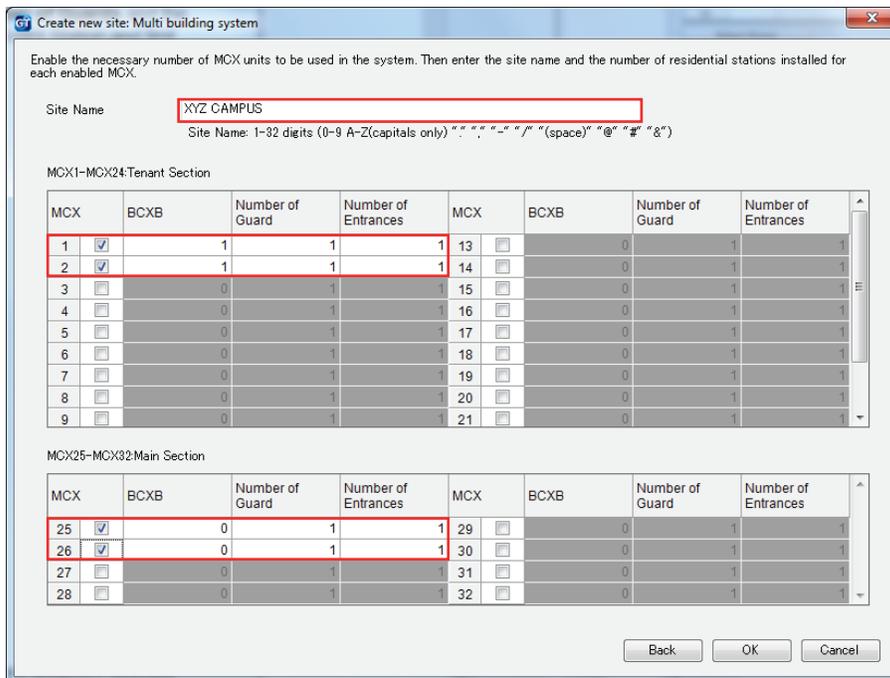

Step 3: Enter a **Site Name** and indicate how many Tenant Sections and Main Sections will be included by checking the box beside each **GT-MCX**. Select if a GT-BCXB-N is included and enter the **Number of Guards** and the **Number of Entrances** for each section. The GT-MCX will take the place of the Guard Station ID1 and Entrance Station ID1.

Step 4: Click OK.

A system will be created within the GT Setup Tool that will include the number of GT-MCX network adaptors selected and the number of guard stations and entrance stations selected for each.

SYSTEM PROGRAMMING WITH MULTIPLE GT-MCX: MULTI-BUILDING (cont.)

Step 5: Select the first MCX in the system, then click **Section Info.** Enter a Section #, a Section Name, and IP Address for each GT-MCX in the system based on what was selected in Step 3. Ensure that tenant sections are entered in lines 1-24 and Main Sections are entered in lines 25-32. Click Save 💾 when done.
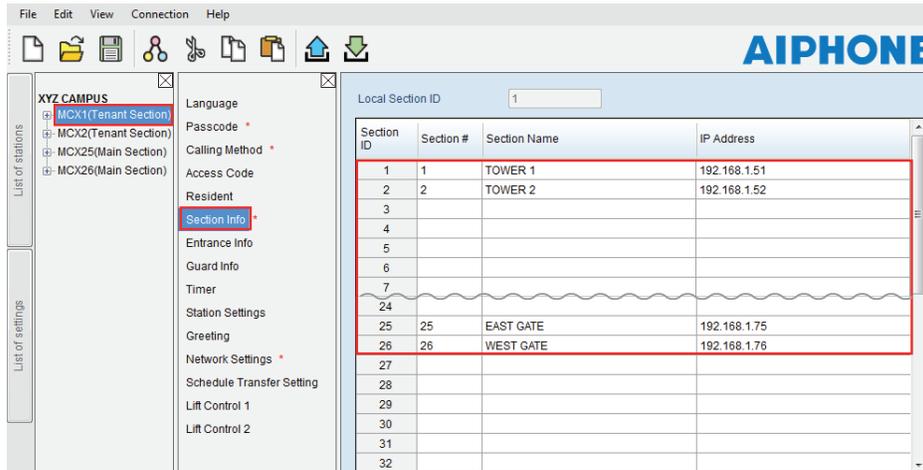
Step 6: Repeat step 5 for each MCX in the system. Copy/Paste (Ctrl C, Ctrl V) from the first MCX Section Info to other sections can be used to save time.

Note: If programming a multi-building system with more than 500 tenants, ensure that the **Calling Method** is set to either **Section List + Unit#**, **Section# + Unit#**, or **Unit Number** in the Main Section.

PROGRAMMING: ADDRESSING TENANTS VIA DIP SWITCH METHOD

Step 1: Create an ID correlation table for the tenant stations using the binary / SW2 Dip Switch - ID chart.
The chart below is for the first 48 stations in a non-expanded or expanded system.
The full Dip Switch chart can be downloaded from http://www.aiphone.net/product/support/gt/
Standard system = S1 - S48. Expanded system = A1 - A250 & B251 - B500

Dip Switch	ID	Dip Switch	ID	Dip Switch	ID	Dip Switch	ID
	S1/A1		S13/A13		S25/A25		S37/A37
	S2/A2		S14/A14		S26/A26		S38/A38
	S3/A3		S15/A15		S27/A27		S39/A39
	S4/A4		S16/A16		S28/A28		S40/A40
	S5/A5		S17/A17		S29/A29		S41/A41
	S6/A6		S18/A18		S30/A30		S42/A42
	S7/A7		S19/A19		S31/A31		S43/A43
	S8/A8		S20/A20		S32/A32		S44/A44
	S9/A9		S21/A21		S33/A33		S45/A45
	S10/A10		S22/A22		S34/A34		S46/A46
	S11/A11		S23/A23		S35/A35		S47/A47
	S12/A12		S24/A24		S36/A36		S48/A48

Step 2: Set the SW2 dip switches found on the back of the GT-1C7(-L), GT-1M3(-L), and GT-2C(-L) according to the correlation table created in the previous step.

GT-1C7(-L)   GT-1M3(-L)   GT-2C(-L)

SW2

On
Off

128 64 32 16 8 4 2 1
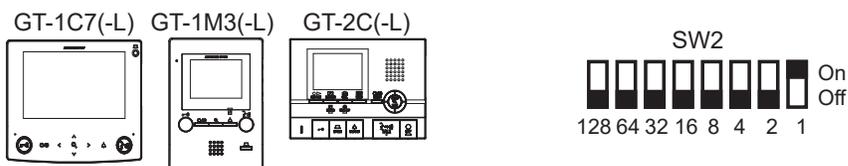
PROGRAMMING: ENTERING RESIDENT INFO

Resident information must be entered into the GT-MCX, GT-DMB(-N, -LVN), GT-MKB-N, and modular digital entrance stations before tenant stations can be programmed.

Step 1: Click **MCX1(Tenant Section)** and then click **Resident**. Enter a Unit # (required) and a Resident Name (not required) for each station in this section.

Step 2: Click Save 💾, and then Yes .

Step 3: Enter a **Unit Link-ID Setting** for each station based on the correlation table on page 19.

Step 4: Click Save 💾, and then Yes .

Step 5: Repeat Steps 1-4 for each MCX(Tenant Section) in the system. Ensure that each MCX is programmed with a unique Unit # for each tenant.
Example: **MCX1 Unit # = 101, 102, 103, etc.**
MCX2 Unit # = 201, 202, 203, etc.

Step 5: The unique resident information created for each Tenant Section will need to be copied to each Main Section in the system. Use Copy/Paste (Ctrl C, Ctrl V) when copying the data. When copying to the Main Sections, do not overwrite the resident info copied from Tenant Section 1 when copying the resident info from Tenant Section 2.
Example of resident info in a MCX(Main): **Tenant Section 1 resident info = lines 1-4**
Tenant Section 2 resident info = lines 5-8

Note: If programming a multi-building system with more than 500 tenants, ensure that the **Calling Method** is set to either **Section List + Unit#**, **Section# + Unit#**, or **Unit Number** in the Main Section. When set to these calling methods, resident information is not required in a Main Section when more than 500 tenants are being called. Tenants must be called via station number only.
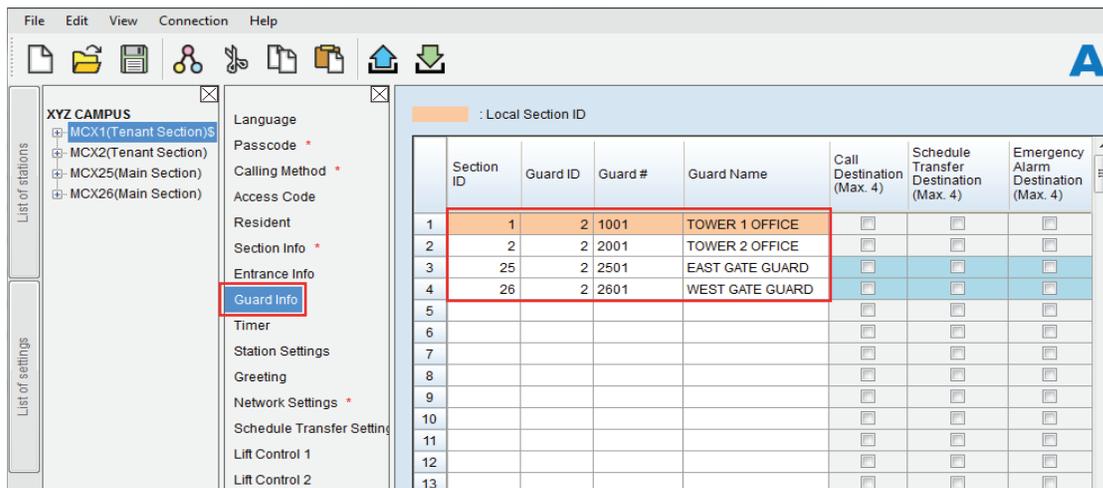
Programming Entrance/Guard Information

Step 1: Click the **MCX1(Tenant Section)**, then select **Entrance Info**. Enter the **Section ID**, **Entrance ID** (2-16), **Entrance #,** and **Entrance Name** (not required) for each entrance station in the system. Ensure that the Section ID is correct in relation to which section the entrance station resides.

> **The GT-MCX uses Entrance ID 1 for each section.**
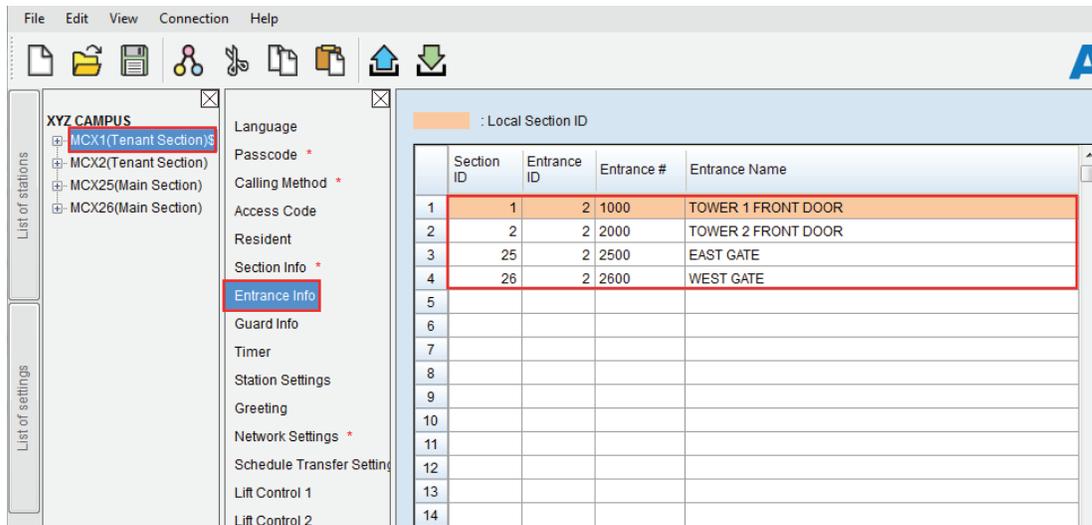
Step 2: Click **Guard Info**. Enter the **Section ID**, **Guard ID** (2-4), **Guard #,** and **Guard Name** (not required) for each guard station in the system. Ensure that the Section ID is correct in relation to which section the guard station resides.

> **The GT-MCX uses Guard ID 1 for each section.**

Step 3: Click Save 💾, and then ⏐ **Yes** ⏐.

Step 4: Copy the Entrance Info and Guard Info from MCX1(Tenant Section) to each of the MCX's in the system. Use Copy/Paste (Ctrl C, Ctrl V) to save time.

Compare and Merge (copy data to other stations in a section)

Warning: Do not Compare and Merge Settings between MCX Sections.

Step 1: Click **Compare and Merge Settings** 🔗 to copy data from the MCX to entrance stations and guard stations within the same section.

Step 2: Ensure that the drop down under Comparison-1 and Comparison-2 have the same section selected. *Important: To prevent duplicate IP addresses, do not Compare/Merge settings between MCX adaptors.* In the **Comparison-1** column, select the **MCX1** radio button that was fully programmed. In the **Comparison-2** column, select the desired entrance station / guard station that you want to copy the data to. Click Compare .
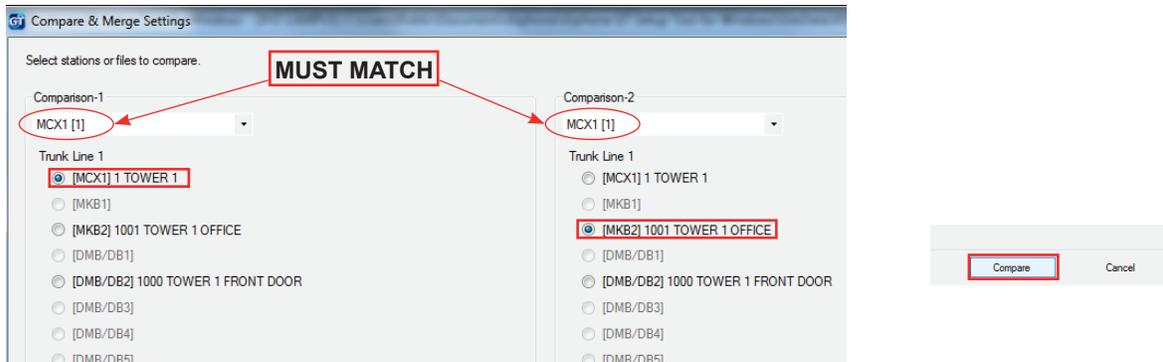
Step 3: Click **Copy All Settings**, then click Comparison-1 >> Comparison-2 to copy the data to the new station. In the **Do you want to overwrite all of the data?** popup, click Yes . Enter the Admin Passcode (default is *1111) for the device being copied to. Click OK. When done, click Save, then Yes .
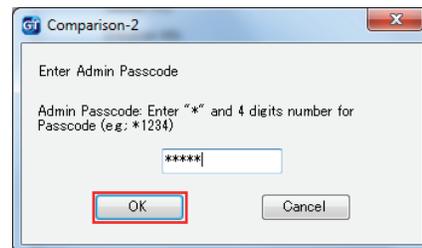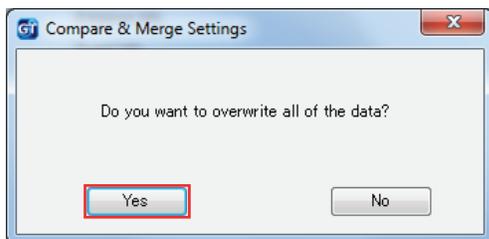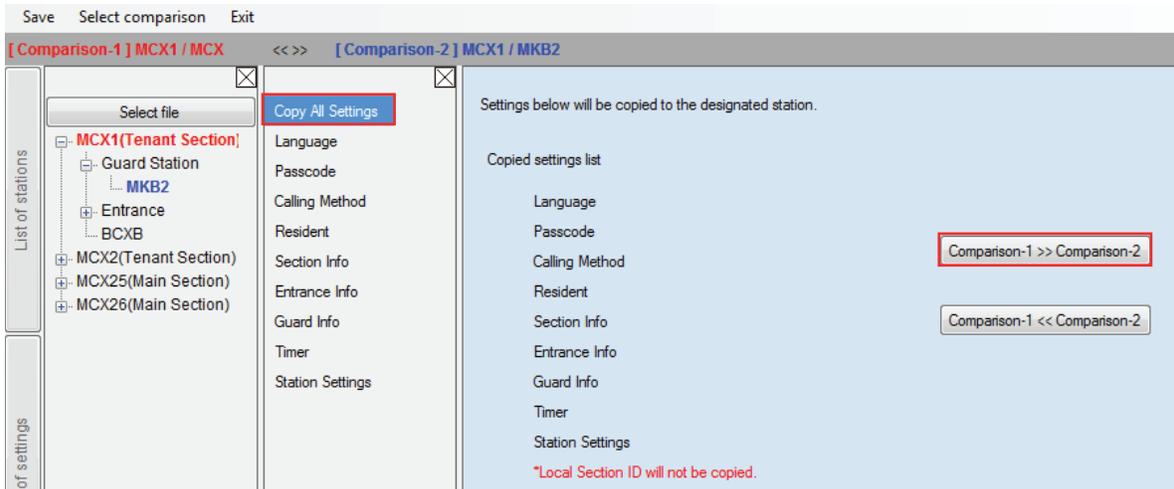
Step 4: Click **Select comparison** to return to the compare and merge screen and repeat for each entrance station and guard station in this section.

Step 5: Repeat steps 2-4 for each MCX(Tenant/Main section). When done copying all settings to each station in each section, click **Exit** to return to the main programming screen.
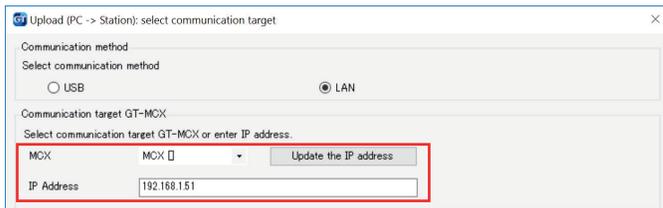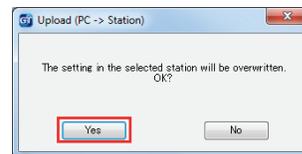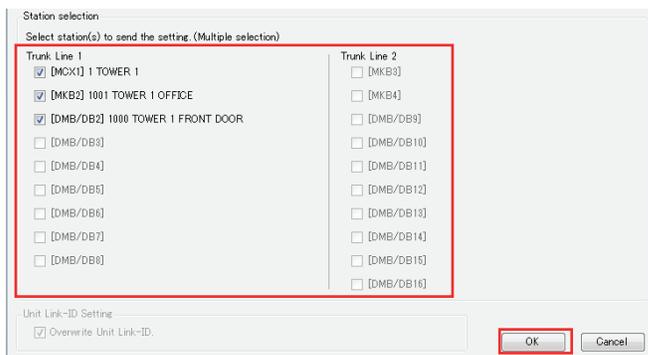
Step 1: Click Upload 🏠.

**Step 2:** From the Upload menu, select the **LAN** radio button.
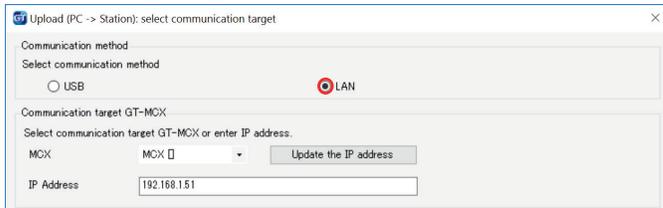
Step 3: Select the desired GT-MCX and verify the correct **IP address**.

Step 4: Select each station that you wish to upload the setting file to. Multiple stations can be selected at the same time. Click OK . Click Yes in the popup window asking if it's ok to overwrite the selected stations.

Step 5: Enter the Admin / Manager Passcode and click OK . The default Admin Passcode is *1111.
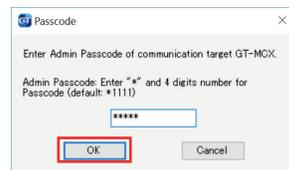
Note:
If the upload to the stations does not work, check the following:

1. Ensure that the entrance station and guard station ID settings are correct. Duplicates on like stations within a section and ID#1 cannot be used.
2. Check that the GT-BC and GT-MCX are connected and powered on.
3. Check that the NIC setting for the GT Support Tool is set correctly. Check this under **Connection > Network Interface Card: NIC**
4. Ensure that you can ping the GT-MCX from your PC.

PROGRAMMING: SHARING HANDSHAKE DATA

The handshake programming method can be used within a Tenant Section only. The handshake is a correlation between the tenant and an entrance station or guard station. In order for the Main Section to call a tenant station that was programmed via handshake in the Tenant Section, the link ID will need to be shared between the entrance/guard station that was programmed and the Tenant Section MCX.
After completing the handshake process on pages 14-15 for the tenant stations, download the data from the entrance station or guard station that was programmed for those stations.

Step 1: Click Download ⬇.

Step 2: From the Download menu, select the **LAN** radio button. Select the Tenant Section MCX where the entrance/guard station programmed with handshake data resides. Verify the IP address is correct.
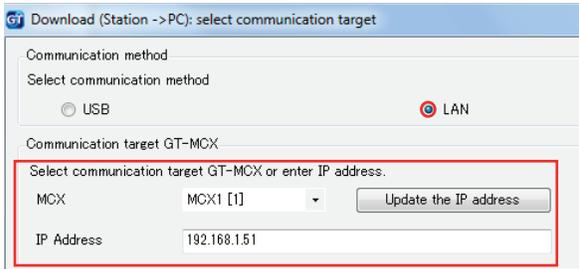
Step 3: Select the entrance/guard station that was programmed with the handshake data. Click OK . Click Yes in the popup window asking if it's ok to overwrite the data. Enter the Admin Passcode and click OK . The default Admin Passcode is *1111.

Step 4: Copy/paste (Ctrl C, Ctrl V) or use **Compare and Merge Settings** (page 22) to send the newly downloaded resident data from the downloaded entrance/guard station to the Tenant Section MCX and other entrance/guard stations in this section.

Step 5: After all data has been copy/pasted or Compare and Merged to the MCX and each entrance/guard station in this section, Upload settings to all stations in this section again (see page 23).

Step 6: Repeat steps 1 - 5 for each tenant section in the system.