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Revision History

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/25/14</td>
<td>Initial release</td>
<td>A.0</td>
</tr>
</tbody>
</table>

Contacts

For additional offices around the world, see www.hidglobal.com/contact corporate offices.

**North America**

611 Center Ridge Drive
Austin, TX 78753
USA
Phone: 866-607-7339
Fax: 949 732 2120

**Asia Pacific**

19/F 625 King's Road
North Point, Island East
Hong Kong
Phone: 852 3160 9833
Fax: 852 3160 4809

**Europe, Middle East and Africa**

Haverhill Business Park Phoenix Road
Haverhill, Suffolk CB9 7AE
England
Phone: 44 (0) 1440 711 822
Fax: 44 (0) 1440 714 840

**Brazil**

Condomínio Business Center
Av. Ermano Marchetti, 1435
Galpão A2 CEP 05038001
Lapa - São Paulo/SP
Brazil
Phone: 55 11 5514-7100

HID Global Customer Support: support.hidglobal.com
1 Overview

HID Mobile Access complements the company’s existing access control solution. Instead of using cards or fobs to access the building, individuals with access to the site, will be able to use an Android or iOS mobile phone to access the secured area.

As approaching the reader, the user can either Tap the phone to the reader, as you would an access card, or once within range of the reader, turn the phone as if turning a door knob (Twist and Go feature) and access will be granted.
2 App Basics

2.1 HID Mobile Access Menu

Depending on the Android device version, the **Menu** icon may be a three dot icon at the top of the screen, or appear at the bottom left of the device.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refresh</td>
<td>Simply refreshes the screen.</td>
</tr>
<tr>
<td>Enter Invitation Code</td>
<td>Enter the invitation code provided via email, to set up the phone.</td>
</tr>
<tr>
<td>Licenses</td>
<td>Displays the Privacy Policy and License and User Agreement.</td>
</tr>
<tr>
<td>Settings</td>
<td>Sets up the HID Mobile Access configuration. See <strong>Section 3: Configuration</strong></td>
</tr>
<tr>
<td>Help</td>
<td>Provides application information, warnings, Twist and Go demo, and contact information.</td>
</tr>
</tbody>
</table>
3 Download the Application and Connect Device

1. Ensure your mobile phone is connected to the internet (either via mobile data network or Wi-Fi) during phone registration and Mobile ID delivery.

2. Open the invitation email you received from your site administrator, inviting you to participate in HID Mobile Access.

3. Follow the instructions in the email to download the **HID Mobile Access** application from Google Play or App Store depending on the device.

4. Enter User Identification code (provided in the email noted above) into the phone (**HID Mobile Access > Menu > Enter Invitation Code**). Click **Register**.

5. Your site administrator will now add you to the site Access Control System, to allow this phone access to the site.
4 Open Doors with HID Mobile Access

To open an access door, with HID Mobile Access:

1. Unlock the phone screen and open the HID Mobile Access Application.  
   **Note:** The application uses negligible battery power and can be left running in the background.

2. *Tap* the phone to the reader, similar to how you use an access card today.  
   **Note:** All readers will work using the *Tap* functionality. Doors may be enabled for long read range; check with the Security Administrator for this information. Doors that have been enabled for long read range are opened by using the *Twist and Go* feature, instead of *Tap*.

   To open a door using *Twist and Go*, unlock the phone and use a twist motion (similar to twisting a door knob) within the read range. A demo of the *Twist and Go* is available on the mobile phone at: **HID Mobile Access > Menu > Help > Twist and Go**.

   **Note:** If a Reader out of range error message is received, move closer to the reader and try the *Twist and Go* gesture again.

The HID Mobile Access application offers additional features:

**Note:** There may be differences in the user experience across Android and iOS devices:

- Open doors by just lighting up the screen (application runs in the background)
- Some users love this feature for its convenience, but not all Operating Systems support this feature reliably. The iOS will shut down applications as the phone memory fills up with more recently used applications. You may find that you have to restart the application regularly.
- For additional options, see *Section 4: Configuration* for a list of the configuration options.

5 Configuration

5.1 Android Application

The following setup configuration example is shown on an Android phone.

1. Open the **HID Mobile Access** Application.

2. Select the *Menu* icon. See *Section 2.1: HID Mobile Access Menu* for Menu instructions.
3. Select the **Settings** option.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Secure Element</strong></td>
<td>Displays the key store location. <strong>Note:</strong> This may show different locations if the phone has an embedded secure memory, or the keys are held on the phones SIM. Normally this will not be changed.</td>
</tr>
<tr>
<td><strong>Mobile ID Protection</strong></td>
<td>With this option enabled mobile access is not allowed unless the phone is unlocked. If this option is not enabled, the phone will operate by simply waking up the screen (press power button). <strong>Note:</strong> This option of disabling Mobile ID Protection may not be available on all devices.</td>
</tr>
<tr>
<td><strong>Play sound when unlocking</strong></td>
<td>This option sets the phone to emit a click when access is allowed.</td>
</tr>
<tr>
<td><strong>Vibrate when unlocking</strong></td>
<td>This option set the phone to emit a vibration when access is allowed.</td>
</tr>
<tr>
<td><strong>Twist and Go</strong></td>
<td>This option enables/disables the <em>Twist and Go</em> function on the phone.</td>
</tr>
<tr>
<td><strong>Bluetooth Sensitivity</strong></td>
<td>This option set the Bluetooth power level. Options are High/Normal/Low. Default is Normal. For more information, see <em>Section 9.1.2 Bluetooth Sensitivity</em>. <strong>Note:</strong> This functionality resides in Android devices only.</td>
</tr>
</tbody>
</table>
5.2 Bluetooth Sensitivity

The Bluetooth Sensitivity option adjusts the Power of the phone’s Bluetooth interface (not for Range adjustment). This option allows the application to remove/reduce false reads or false triggering due to the Bluetooth chip sensitivity. Default is Normal.

- If a user phone triggers readers at longer than expected distances, or by simply walking past the reader, then set to Low.
- If there is an unreliable read or read distance is very short, then set to High.

<table>
<thead>
<tr>
<th>Bluetooth sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
</tr>
<tr>
<td>Normal</td>
</tr>
<tr>
<td>Low</td>
</tr>
</tbody>
</table>
5.3 iOS Application

The following setup configuration example is shown on an iOS phone.

1. Open the **HID Mobile Access** Application.

2. Select the **Menu** icon.
3. Select the **Settings** option.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
</table>
| **Mobile ID Protection**
(see your site administrator for site requirement) | With this option enabled mobile access is not allowed unless the phone is unlocked.  
If this option is not enabled, the phone will operate by simply waking up the screen (press power button).  
**Note:** This option of disabling Mobile ID Protection may not be available on all devices. |
| **Twist and Go**                  | This option enables/disables the *Twist and Go* function on the phone.                                                                      |
| **Play sound when unlocking**     | This option sets the phone to emit a click when access is allowed.                                                                         |
| **Vibrate when unlocking**        | This option set the phone to emit a vibration when access is allowed.                                                                      |
## 6 User Feedback

<table>
<thead>
<tr>
<th>Use Case</th>
<th>Message(s)</th>
<th>Android Vibrations</th>
<th>iOS Vibrations</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Success</strong></td>
<td>Communication with reader</td>
<td>1</td>
<td>1</td>
<td>Transaction is typically concluded by green or red reader LED.</td>
</tr>
<tr>
<td><strong>Logical Error</strong></td>
<td>No reader in range</td>
<td>0&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0</td>
<td>When user is in line of sight but not within <em>Twist and Go</em> distance.</td>
</tr>
<tr>
<td></td>
<td>Mobile ID rejected</td>
<td></td>
<td></td>
<td>When antipassback kicks in or if no Mobile ID for site.</td>
</tr>
<tr>
<td></td>
<td>Twist and Go not supported by reader</td>
<td></td>
<td></td>
<td>When closest reader is configured to not support <em>Twist and Go</em>.</td>
</tr>
<tr>
<td></td>
<td>Tap not supported by reader</td>
<td></td>
<td></td>
<td>When Tapping reader which is configured to not support <em>Tap</em>.</td>
</tr>
<tr>
<td><strong>Major Error</strong></td>
<td>Communication error</td>
<td>0&lt;sup&gt;2&lt;/sup&gt;</td>
<td>0</td>
<td>Failure at the BLE layer or in the communication layer.</td>
</tr>
</tbody>
</table>

**Note:** The iOS only supports a maximum of a single vibration per notification message, and the Android app is designed to align with this. The apps have been designed so that a vibration and a sound/click will only be triggered when a communication channel is opened to the reader. For the use cases **Mobile ID rejected** and **Communication error**, the reader will first enter the use case **Communicating with reader** with a single vibration and click but then immediately switch to the error message triggered by the error state.

<sup>1</sup> From Seos Android 2.2.3. Earlier versions used 2 vibrations in this case.

<sup>2</sup> From Seos Android 2.2.3. Earlier versions used 3 vibrations in this case.
7 Background Operation

7.1 Android Device

The HID Mobile Access App is started automatically after reboot on an Android phone, and it runs seamlessly and consistently in the background. If the App is forced to close, it will be necessary to restart the App.

7.2 iOS Device

The HID Mobile Access App is not automatically started after reboot on an iOS phone. Once started, it will run seamlessly in the background but with exceptions and clarifications listed in the table below. If the App is forced to close, it will be necessary to restart the App.

<table>
<thead>
<tr>
<th>Operating Mode</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success App in foreground</td>
<td>Preferred mode of operation that works consistently</td>
</tr>
<tr>
<td>App in background + unlocked screen</td>
<td>This mode works well but if issues occur, start or bring the App to the foreground.</td>
</tr>
<tr>
<td>App in background + screen locked but lit up</td>
<td>This background mode needs to be manually enabled in the App Settings to work properly.</td>
</tr>
<tr>
<td></td>
<td>If the Mobile ID protection setting is disabled, doors can be opened without unlocking the phone if the screen is lit up. Issues can occur depending on which apps are installed, and running, and how they operate. If issues occur, unlock the screen and bring the App to the foreground.</td>
</tr>
<tr>
<td>App in background + black screen</td>
<td>This is not supported due to limitations in the phone OS</td>
</tr>
</tbody>
</table>

8 General Information

- Do not delete the HID Mobile Access application from your mobile device unless instructed to do so by your Security Administrator. If the application is deleted, or if you backup and restore the contents of your phone, the Mobile ID(s) will be deleted permanently and new IDs will need to be issued.

- Mobile ID(s) cannot be transferred to a new or different phone. If you change/replace your phone, contact your Security Administrator to register the phone and issue Mobile IDs.  
  **Note:** This enhances the security of the Mobile ID(s).

- Mobile ID(s) will be preserved if the HID Mobile Access Application or the phone’s Operating System (OS) is upgraded.

- If your phone is lost or stolen, this should be treated as a lost access badge, and notify the Security Administrator immediately.