Provisioning Embedded Integration Guidelines

1) The new provisioning library (simplelink_extlib/provisioninglib), needs host timer support for timing events. When, using the provisioning library, application needs to provide handlers for two timer events –

   a) Delay timer – Provisioning library invokes ' sl_extlib_ProvWaitHdl()' when certain amount of delay is needed. Please refer to the sample applications realization of 'sl_extlib_ProvWaitHdl' for details. Timer resolution is in msecs.

   b) Tick timer – Host driver/provisioning library checks the host tick count to internally determine certain timeouts. Host driver/provisioning library calls 'sl_GetSystemtime()' to get current tick count. For non-os applications, it is mandatory to support this option in the builds.
   Power conscious applications, may turn-on and turn-off the tick timer, when provisioning library/host driver is used/unused. To support, 'sl_Getsystemtime(), please refer to the sample application.

```
i) Map 'sl_GetTimestamp' to host tick handler
#define sl_GetTimestamp sl_Msp_GetTimestamp

ii) Define number of ticks for 10 secs
#define SL_TIMESTAMP_TICKS_IN_10_MILLISECONDS 10

iii) Define the maximum tick count

#define SL_TIMESTAMP_MAX_VALUE 0xFFFF
```

2) In, noisy environments the handshakes between Simplelink device and phone, may take longer Or may fail. Ensure that the WiFi environment is less noisy and one, may increasing the handshake UDP broadcast packets sent in

```
In provisioning_logic.c..

SendUdpBCast(50); // increase to higher value in noisy environments
```

3) The user must make sure that four files exist in the filesystem, to be used by the provisioning library. These files can be programmed using the uniflash, or written by the application using the filesystem API. The files are:
   ```
   #define SL_FILE_PARAM_PRODUCT_VERSION  "/www/param_product_version.txt"
   #define SL_FILE_PARAM_CFG_RESULT       "/www/param_cfg_result.txt"
   #define SL_FILE_PARAM_DEVICE_NAME      "/www/param_device_name.txt"
   #define SL_FILE_NETLIST                "/www/netlist.txt"
   ```

4) The user must make sure to handle an HTTP token callback for token __SL_G_DEN. Failure to do so will result in garbage name appearing in the devices list using the provisioning app.