

Requirements:

1. ORACLE software version 1.4 or higher
2. SMART 6 software version 1.09 or higher
3. USB stick
4. CAT5 Ethernet cable

Download Required Softwares:

1. Download both ORACLE and SMART 6 software and copy into USB stick.

Update SMART 6 Software:

1. Insert USB Stick containing the software update bundle (*.cib) into the SMART 6 USB port.
2. From the **Home** screen, press on **System Menu**.
3. Select **Tools**.
4. Select **System Update**.
5. Select **Update Package**.
6. Select "**Smart 6 Update Bundle v1.0x**", and select **OK**.
7. Select **Install**.
8. "**Preparing Update...**" will be shown on the screen and the system will automatically restart.
9. Upon restart, the system will automatically initiate the software update process.
10. To verify the software version, click on the **System Menu → Information → System Information**.

SMART 6 Settings:

1. Click on the SMART 6's **System Menu**.
2. Select **Settings**.
3. Select **System**.
4. Scroll down and under Trac, enter the following values.

IP Address: **192.168.1.10**

Update ORACLE Software:

1. Check first if ORACLE software has connectivity to the Coreboard otherwise, the ORACLE update will fail. This can be done by clicking on the magnet icon along the top of the ORACLE screen to check for magnet temperature. If **XX** is displayed, see Appendix B (ORACLE version 1.3.3 or lower), or Appendix C (version 1.3.4 and higher). Otherwise, proceed to step 2.
2. Click **Menu**.
3. The software version is listed in the bottom right corner (under the date) in gray text.
4. Enter Service Mode (see Appendix A).
5. Insert USB stick with new software version into the processor box.
6. Go to **Menu → settings → tools → Update Application**.
7. Select the USB device.
8. Select the software file.
9. Click **Update**.
10. ORACLE software will automatically close. The Shell Launcher may or may not generate an error. If it does, click **Close the Program**.
11. The ORACLE software should automatically start after the Update process.

ORACLE Settings:

A. Force Shell Launcher restart.

Note: Do not skip this part (Step A). If not done, succeeding procedures will not work properly.

1. Enter Service Mode. (see Appendix A)
2. Go to **Menu** → **settings** → **tools** and select **Exit ORACLE**.
3. Upon closing of ORACLE program, the Shell Launcher may or may not generate an error. If it does, click **Close the Program**.

B. Check if Windows 8.1 Embedded Firewall is OFF.

1. On the ORACLE Utility, click **Login** and enter **A314159B** as the password.
2. Click **Windows** tab and click **Control Panel**.
3. On Control Panel, click **System and Security**.
4. Click **Windows Firewall**.
5. On the left hand side panel, click **Turn Windows Firewall on or off**.
6. Under Private Network settings, select **Turn off Windows Firewall (not recommended)**.
7. Under Public network settings, select **Turn off Windows Firewall (not recommended)**.
8. Click **OK** to save changes.
9. Click on the **X** button (top right) to close Windows Firewall window.
10. On the ORACLE Utility, click **System** tab and click **Start ORACLE** to re-launch ORACLE software.

C. Set the other Network Interface on ORACLE for SMART 6 connection.

1. Login as **Admin**. Enter **oracleadmin** as password.
2. Connect one end of the CAT5 Ethernet cable to the SMART 6 and the other end to the unused Ethernet port on the processor box.
3. Go to **Menu** → **settings** → **tools**.
4. Click on **System** button.
5. Click on **Network** button.
6. 2 boxes will be displayed. 1 box for each Network Interface. 1 box should already be configured for Trac/Coreboard with an IP Address of 10.0.0.1. Do not change the configuration of the said box.
7. The other box will be labelled with one of the following: **Ethernet**, **Ethernet 2**, or **Smart6**
8. Click the **Gear** icon and select **Set SMART 6**.
9. If successful, the IP Address will be set to **192.168.1.10**.

D. Enable SMART 6 connection from ORACLE.

1. Go to **Menu** → **settings** → **system**.
2. Scroll down and click the **SMART 6** switch to turn it **ON**.

E. Verify SMART 6 and ORACLE connectivity

1. Assuming the units are properly connected and configured, the SMART 6 should automatically attempt to establish software connectivity.
2. A successful connection is indicated by the following:
 - i. SMART 6: ORACLE icon right before the clock on the bottom right corner of the SMART 6 screen.
 - ii. ORACLE: SMART 6 icon in white will appear along the top of the ORACLE screen.

Appendix A: Entering ORACLE Service Mode

1. Go to **Menu** → **settings** → **system**.
2. Scroll down and click the **Service Mode** switch to turn it **ON**.
3. Enter **cemecho** as the password.
4. Click **Login**.
5. If done correctly, a wrench icon will appear along the top of the screen.

Appendix B: Configure ORACLE for Coreboard connectivity. (*Applies to version 1.3.3 and lower*)

1. Unplug the SMART 6 Ethernet cable if connected to the processor box. Only the Coreboard Ethernet cable should be plugged into the motherboard.
2. Enter Service Mode. (see Appendix A)
3. Go to **Menu** → **settings** → **tools** and select **Exit ORACLE**.
4. On the ORACLE Utility, click **Login** and enter **A314159B** as the password.
5. Click on **Windows** tab and select **Explorer**.
6. Once Explorer is open, navigate into **Documents** and double-click on **Set_Oracle_IP.exe**.
7. Type the number (**1** or **2** and press **Enter** key) corresponding to the Ethernet whose **State** is **Connected**.
8. Type **2** and press **Enter** key to select **Set IP for TRAC connection**.
9. Once successful, it will show the following on the screen:

```
Configuration for interface "TRAC"
DHCP enabled:           No
IP address:             10.0.0.1
Subnet prefix:         10.0.0.0/16 <mask 255.255.0.0>
Default Gateway:       10.0.0.254
```

10. Press **Enter** key to continue.
11. Type **3** and press **Enter** key to quit program.
12. On the ORACLE Utility, click on **System** tab and click **Re-start OS**.

Appendix C: Configure ORACLE for Coreboard connectivity. (*Version 1.3.4 and higher*)

1. Unplug the SMART 6 Ethernet cable if connected to the processor box. Only the Coreboard Ethernet cable should be plugged into the motherboard.
2. Enter Service Mode. (see Appendix A)
3. Go to **Menu** → **settings** → **tools**.
4. Click on **System** button.
5. Click on **Network** button.
6. 2 boxes will be displayed. 1 box for each Network Interface. 1 box should be grayed out indicating a disconnected/unplugged state.
7. The other box will be labelled with one of the following: **Ethernet**, **Ethernet 2**, or **TRAC**.
8. Click the **Gear** icon and select **Set TRAC**.
9. If successful, the IP Address will be set to **10.0.0.1**.
10. Click the **Back** button.
11. Go to **Menu** → **settings** → **tools**.
12. Click **Exit**.
13. Click **Re-Start O.S**.
14. Click **Yes**.