**Device Software:**

DEFAULT STATUS: [MESSAGE 1], with LCD backlight OFF to appear unit is idle. The LED is green and steady as shown in the table to demonstrate unit is on.

Scanner configuration: TRIGGER DELAY MODE (3 or 5 SECONDS). See scanner manual for barcodes for setting. This setting will turn off the red light after 3 or 5 seconds. The scanner, which is camera based, remains active.

1. Scan successful: CAPTURE BARCODE FROM SCANNER DEVICE [MESSAGE 2]
   1. Connection to ODTS Succeeded [MESSAGE 3] (FETCH DOSIMETER NUMBER, NAME, EMAIL, SUPERVISOR EMAIL, RETURN DATE, PERIOD CODE, SLAC ID)
      1. Dosimeter number NOT NULL [MESSAGE 4]
         * 1. Return date NULL: UPDATE RETURN DATE TO “NOW” [MESSAGE 5]. INCREMENT COUNTER FOR SYSTEM HEALTH TALLY

eMail NOT NULL: Send email [MESSAGE 9]

email NULL: Send email to supervisor [MESSAGE 9]

* + - * 1. Return date NOT NULL [MESSAGE 6a, 6b]
    1. Dosimeter number NULL [MESSAGE 7]
  1. Connection to ODTS Failed [MESSAGE 8]

1. Scan not successful [MESSAGE 7]

|  |  |  |  |
| --- | --- | --- | --- |
| **MESSAGE #** | **MESSAGE TEXT (2 X 16 LCD)** | **LED BEHAVIOR** | **MESSAGE DURATION** |
| MESSAGE 1 (Default Status) | READY | GREEN STEADY | CONTINUOUS WHILE IDLE |
| TO SCAN |
| MESSAGE 2 (where #### is BARCODE VALUE) | [#####] | BLUE FLASHING | WHILE WAITING |
| SEARCHING… |
| MESSAGE 3 | CONNECTED… | BLUE FLASHING | WHILE WAITING |
|  |
| MESSAGE 4 | RECORD FOUND… | BLUE FLASHING | WHILE WAITING |
|  |
| MESSAGE 5 | RETURN | GREEN FLASHING | WHILE WAITING |
| SUCCESSFUL |
| MESSAGE 6a | LAST NAME | GREEN FLASHING | 0.5 SECOND |
| FIRST NAME |
| MESSAGE 6b | RETURNED ON | GREEN FLASHING | 0.5 SECOND |
| MM/DD/YYYY |
| MESSAGE 7 | UNKNOWN DOSI | YELLOW FLASHING | 0.5 SECOND THEN Default status |
| PLEASE TRY AGAIN |
| MESSAGE 8 | NETWORK | RED FLASHING | CONTINUOUS UNTIL CONNECTED THEN Default Status |
| FAILURE |
| MESSAGE 9 | CONFIRMATION | GREEN FLASHING | 0.5 seconds then Default Status |
| SENT VIA EMAIL |

Prior to sending email, check whether there are any other unreturned dosimeters by performing a group by query on the SLAC ID, and counting the number of rows.

**To:** [email address]

**From:** [No-Reply@slac.stanford.edu]

**Subject:** Dosimeter Return Confirmation

**Email Text (if no other unreturned dosimeters):** [First Name, Last Name]’s dosimeter [Dosimeter Number] from [Period Code] was returned on [Return Date]. Thank you!

**Email Text (still has other dosimeters unreturned):** [First Name, Last Name]’s dosimeter [Dosimeter Number] from [Period Code] was returned on [Return Date].

Our records indicate that you still have the following dosimeter(s) which are unreturned:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | SLAC ID | Dosimeter Number | Period Code |
| Row 1 |  |  |  |
| Row 2 |  |  |  |
| Row n |  |  |  |

Please either return the remaining dosimeter(s) or fill out a damaged/lost dosimeter form which you can find on the ESH/RP website.

Thank you!

**System Health Viewer (SLAC Internal Web):**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | Tally | | | |  |
| Host Name | Mac Address | IP Address | Location | Last 30 Days | Last 90 days | Last 365 Days | Lifetime | Status\* |
| **SSRL1** | **AB:CD:6F:12** | **162.158.149.1** | **B140-223** | **50** | **120** | **400** | **800** | **ONLINE** |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

\*Online or Offline

Security

* Must be compliant with SLAC network security policies

ODTS Queries:

1. Pass DOSIMETER NUMBER, RETURN DOSIMETER NUMBER, NAME, EMAIL, SUPERVISOR EMAIL, RETURN DATE, PERIOD CODE, SLAC ID.
2. Update RETURN DATE for a given dosimeter number
3. Pass SLAC ID, RETURN NAME, SLAC ID, DOSIMETER NUMBER, PERIOD CODE.