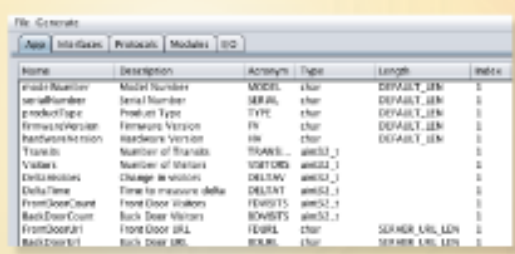


# IoT Reference Platform<sup>📶</sup>

## 4 Steps to Creating an IoT Application

### 1 System Definition



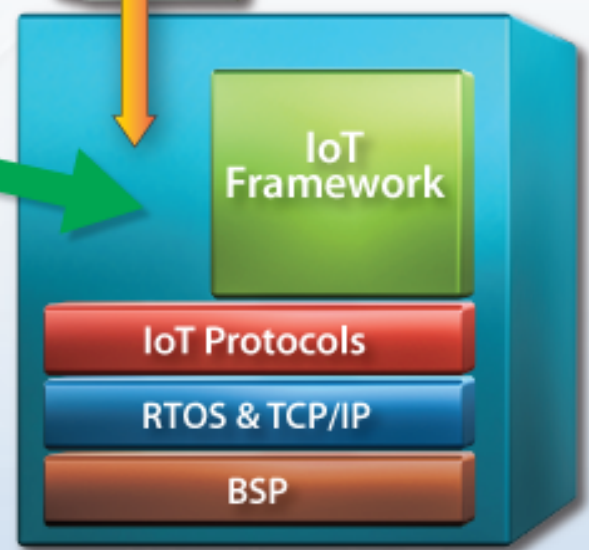
| Name            | Description           | Acronym    | Type     | Length      | Index |
|-----------------|-----------------------|------------|----------|-------------|-------|
| prodNumber      | Model Number          | MODEL      | char     | DEFAULT_LEN | 0     |
| serialNumber    | Serial Number         | SERIAL     | char     | DEFAULT_LEN | 0     |
| productType     | Product Type          | TYPE       | char     | DEFAULT_LEN | 0     |
| firmwareVersion | Firmware Version      | FW         | char     | DEFAULT_LEN | 0     |
| hardwareVersion | Hardware Version      | HW         | char     | DEFAULT_LEN | 0     |
| Transit         | Number of Transits    | TRANSIT    | uint32_t |             | 0     |
| Visitors        | Number of visitors    | VISITORS   | uint32_t |             | 0     |
| DeltaVisitors   | Change in visitors    | DELTA_V    | uint32_t |             | 0     |
| DeltaTime       | Time to measure delta | DELTA_T    | uint32_t |             | 0     |
| FrontDoorCount  | Front Door Visits     | FRONT_DOOR | uint32_t |             | 0     |
| BackDoorCount   | Back Door Visits      | BACK_DOOR  | uint32_t |             | 0     |
| FrontDoorURL    | Front Door URL        | FRONT_URL  | char     | DEFAULT_LEN | 0     |
| BackDoorURL     | Back Door URL         | BACK_URL   | char     | DEFAULT_LEN | 0     |

#### DEFINE

- Device Info: Product Name, P/N, FW version
- Protocols: SNMP, SNTIP
- External IO (digital / analog)
- User access control levels and passwords
- State variables: IO of legacy code

### 2 Run Tool to Generate Code

### 3 Add Algorithms & Legacy Code



### 4 Compile and Download

