Architecture Document
Finite State Sensor Logging Array

Codename: senseame

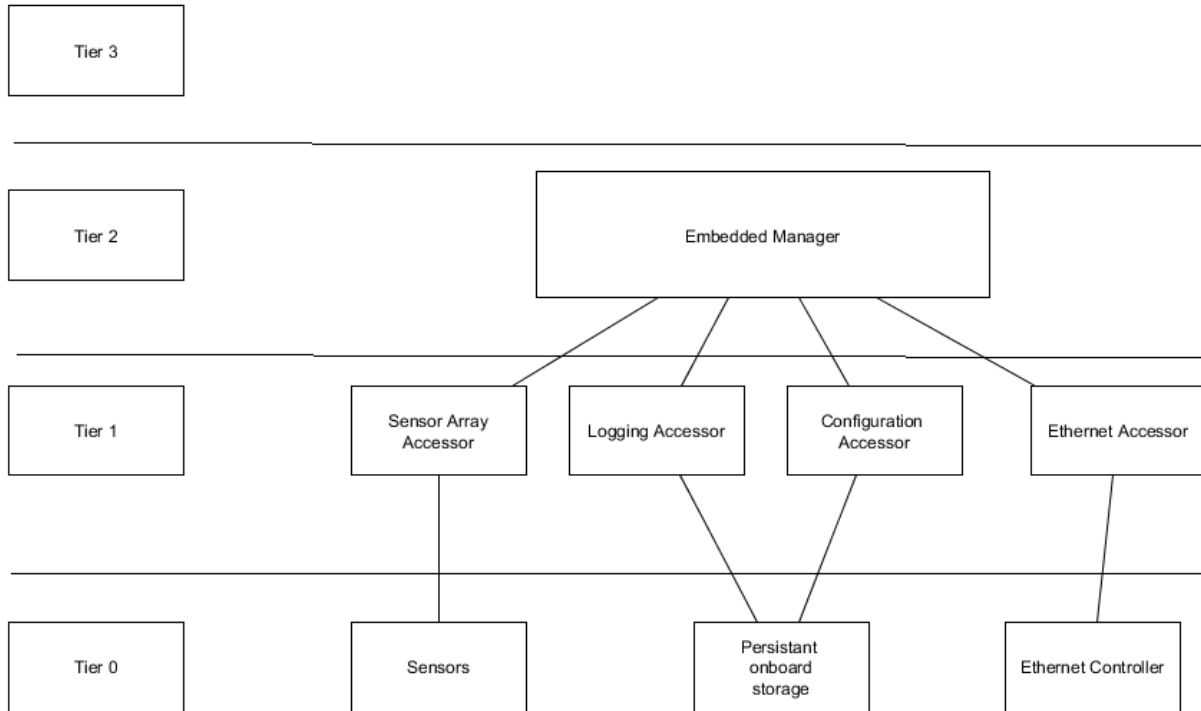| Version	Description of Change	Author	Date
1	Initial creation	Andrew Koerner	10/31/2012

CONTENTS

1. INTRODUCTION

This document is geared at outlining the functional architecture of the *senseame* system. This includes block diagrams, entity relationships and the flow of data within the program
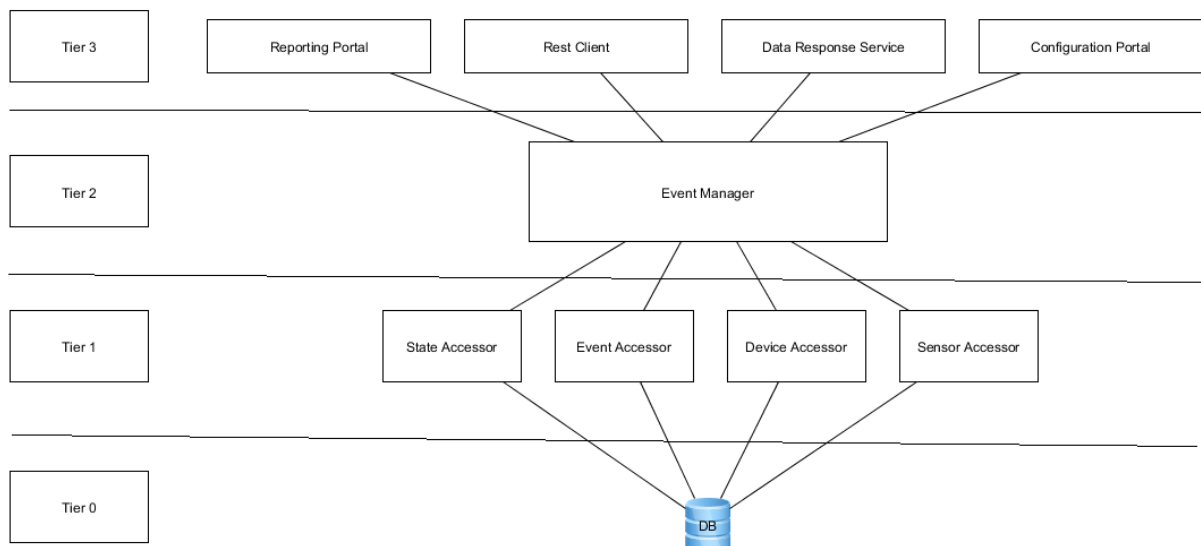
2. BLOCK DIAGRAM
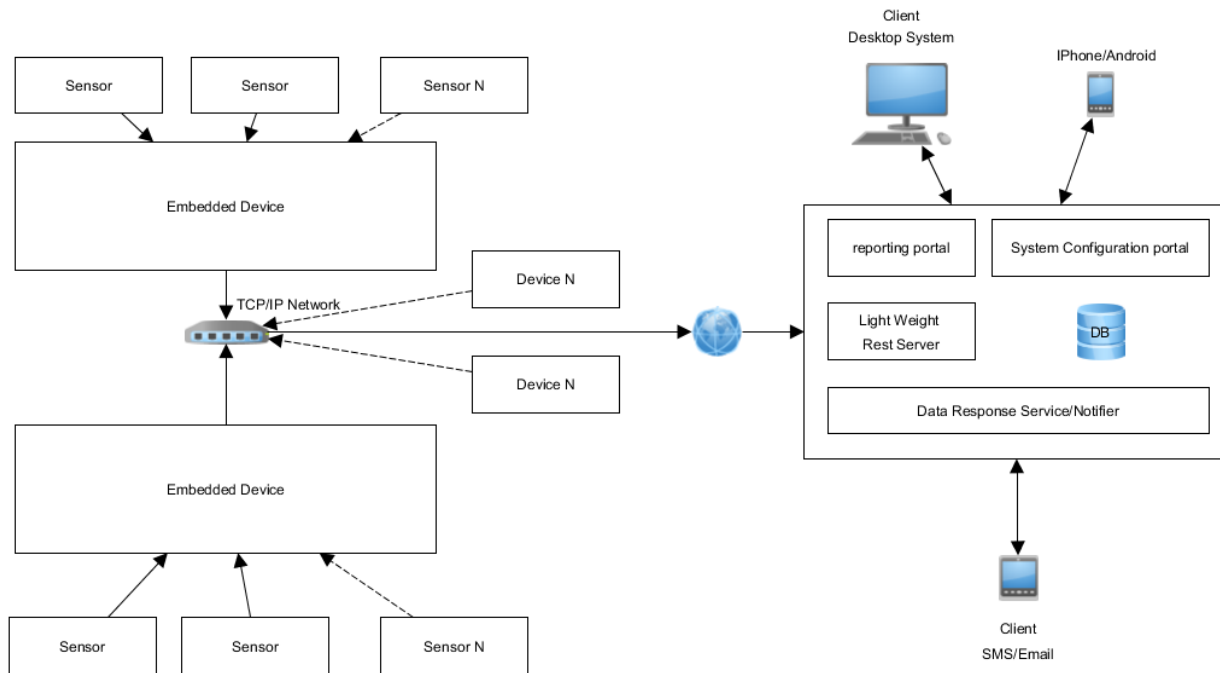
1. DATA PATH

Embedded System Data Path

Tier 3	

Tier 2	Embedded Manager

Tier 1	Sensor Array Accessor
	Logging Accessor
	Configuration Accessor
	Ethernet Accessor

Tier 0	Sensors
	Persistant onboard storage
	Ethernet Controller

Server Stack Data Path

Tier 3	Reporting Portal	Rest Client	Data Response Service	Configuration Portal

Tier 2	Event Manager

Tier 1	State Accessor	Event Accessor	Device Accessor	Sensor Accessor

Tier 0	DB

1. DATABASE ENTITY RELATIONSHIPS

Devices
id
name
description
location

Events
id
device_id
state_id

Sensors
id
devices_id
name
description
location

States
id
sensors_id
key
value