

inLight Remote Wireless Management System



Thalea

System Description

The inLight Remote Management system offers a complete solution for the Adaptive Street Lighting Control based on the 2.4 GHz IEEE 802.15.4 Standard. With the system you can control from a single light point to a entire groups of light points; configure the scheduler for 4 seasons, 7 days in a week with a 15 minutes interval; have the outside triggers like traffic intensity and weather status to adapt the light intensity in order to declassify the road type when and where this is permitted by the EN 13201 recommendations.

The system consist of three basic components:

- inLight Application Server
- inLight Gateway
- inLight Slave modules



Thalea

System Description

inLight Application Server: is used to configure, manage and to have the reports and alarms of the entire system. It can have multiple users of different levels such as administrators, technicians and viewers. It can manage different time schedules for four seasons, seven days in a week and fifteen minutes interval for every single Slave module, there can be also managed different triggers with priorities.

inLight Gateway: is the main gateway between the server and the slave modules (street Lights), it connects to the server via TCP/IP or GSM network at defined interval and it downloads / uploads the updates, reports, alarms and settings from the Slave modules via wireless IEEE 802.15.4 @2.4GHz to the Application Server. Up to fifty Slave modules can be connected to one Gateway.

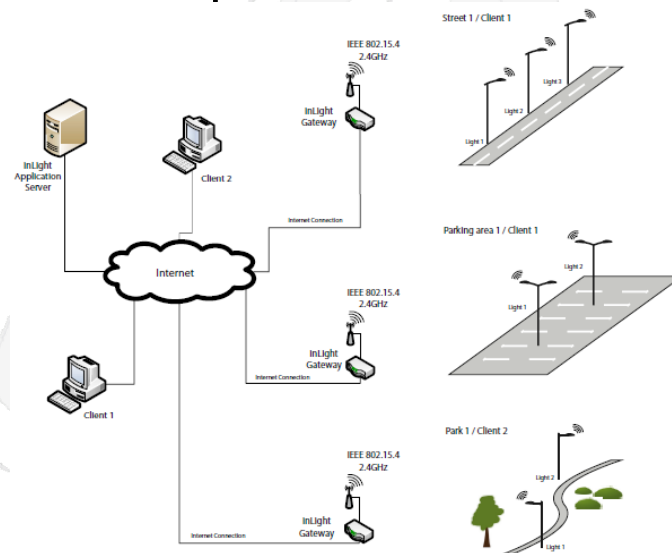
inLight Slave modules: is used to configure, manage and to have the reports and alarms of the system. It can have different I/O digital and/or analogue and it can have different sensors based on the customer requirements. Every module has the range of approximately 1km in open space.

Example of dimming timeline



Thalea
TEKNOLOGIJE

System Description



Thalea
TEKNOLOGIJE

Application Server: Scheduler

Thalea InLight Scheduler

Dashboard | Reports | Users | Companies | Mailing lists | Device types | Attributes | Device Groups | Devices | Gateways | Schedules | Modes | Triggers

Logged in as superadmin | Logout

Schedules

Add | Delete

ID	Name	Default mode
8	Thalea Office	Dim
10	Gregor	Group
11	Frankfurt	Dim

Details

Season: Spring
Day of the week: Monday
Copy to: 30

Timeline

Add | Delete all

Start	End	Mode	Device
15:00	18:30	Custom	Dim10
18:30	19:45	Custom	Dim10
19:45	20:00	Custom	Dim10
20:00	21:00	Custom	Dim10
21:00	21:15	Custom	Dim10
21:15	21:30	Custom	Dim10
21:30	21:45	Custom	Dim10
21:45	22:00	Custom	Dim10

Thalea Tehnologie

Application Server: Triggers

Thalea InLight Triggers

Dashboard | Reports | Users | Power supplies | Mailing lists | Device Groups | Devices | Gateways | Schedules | Modes | Triggers

Logged in as matta | Logout

Triggers

Add | Delete

ID	Name
47	Mod 0%
48	Mod 100%
49	Mod 50%
50	Mod 10%

Trigger input parameters

Add | Delete | Refresh

Device	Attribute	Operator	Value
Traffic Control	Traffic Control	>	255

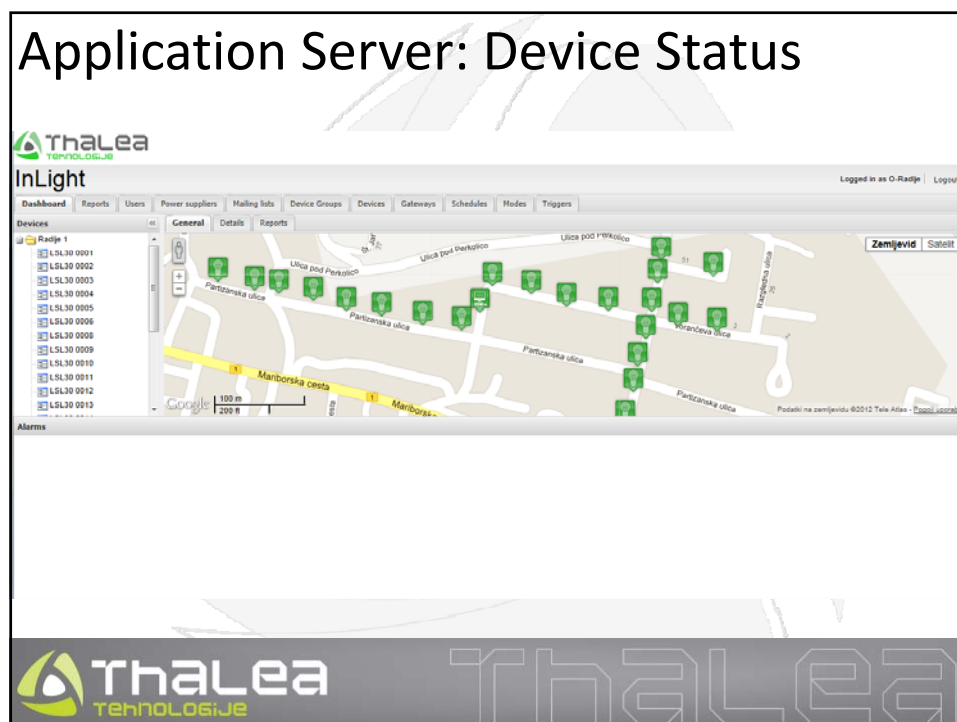
Trigger output parameters

Add | Delete | Refresh

ID	Device	Attribute	Value	Priority
482	LSL 0001	Dim Level	99	1
483	LSL 0002	Dim Level	99	1
484	LSL 0003	Dim Level	99	1
485	LSL 0004	Dim Level	99	1
486	LSL 0005	Dim Level	99	1

<http://www.inlight.nl/#>

Thalea Tehnologie



Gateway: Hardware



Thalea

Customer specific Gateway: Hardware



Thalea

Costumer specific Slave: Hardware



Thalea

Costumer specific Slave: Hardware



Thalea

Costumer specific Slave: Hardware



Thalea