

The diagram illustrates the TALQ data model architecture, organized into two main horizontal sections. The top section consists of seven red rounded rectangular boxes, each representing a specific control or management function: Street Lighting Control, Waste Collection, Traffic Control, Parking Space Detection, Environmental Sensing, Asset Management, and Cabinet Control. To the right of these boxes is a white rounded rectangular box labeled 'Others', which is connected to the main row by a thin line. The bottom section is a large red rounded rectangular container. Inside this container, there are six smaller red rounded rectangular boxes arranged in a single row, each representing a core data model component: Configuration (Device discovery, commissioning, service capabilities), Data Collection (Eventing, periodic data collect, ad-hoc data collect, log config), On-demand Read (Metering attributes and status), Control & Override (Schedulers, control programs, calendars, commands, overrides), Group Management (Create groups, update groups, delete groups), and Data Package (Firmware update, sending any proprietary data package). Below these six boxes are two horizontal red bars: the top one is labeled 'TLS Security' and the bottom one is labeled 'HTTP RESTful', indicating the communication protocols used by the system.

```

graph TD
    subgraph TopRow [ ]
        direction LR
        SLC[Street Lighting Control]
        WC[Waste Collection]
        TC[Traffic Control]
        PSD[Parking Space Detection]
        ES[Environmental Sensing]
        AM[Asset Management]
        CC[Cabinet Control]
        O[Others]
    end

    subgraph BottomRow [ ]
        direction LR
        C[Configuration  
Device discovery,  
commissioning,  
service capabilities]
        DC[Data Collection  
Eventing, periodic  
data collect, ad-hoc  
data collect, log config]
        OR[On-demand Read  
Metering attributes  
and status]
        CO[Control & Override  
Schedulers, control  
programs, calendars,  
commands, overrides]
        GM[Group Management  
Create groups, update  
groups, delete groups]
        DP[Data Package  
Firmware update,  
sending any  
proprietary data  
package]
    end

    TLS[TLS Security]
    HTTP[HTTP RESTful]
  
```

The TALQ data model, available on GitHub

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