Whose Afraid of the Big Bad Scheduler?

Developing Around the System Scheduler

Objective

- "Preventative Maintenance" functionality needed to create and manage periodic/repetitive tasks.

- Related to a location, not CI.

- Decentralized administration governed by more that one group.

- Extendibility to cover future group's needs as they surface.

Why Not OoB?

- **SM Planned Maintenance.**
    - Available in Fuji. We were on Dublin.
    - Maintenance over things (Assets), not locations (per wiki). Fuji implementation does provide for "General" meaning "you name the table".
    - Only accommodates a single administration group.

Implementation

- 2 Administration groups
  - Data Center Operations
  - Customer Support

- 3 Location types
  - Data Centers
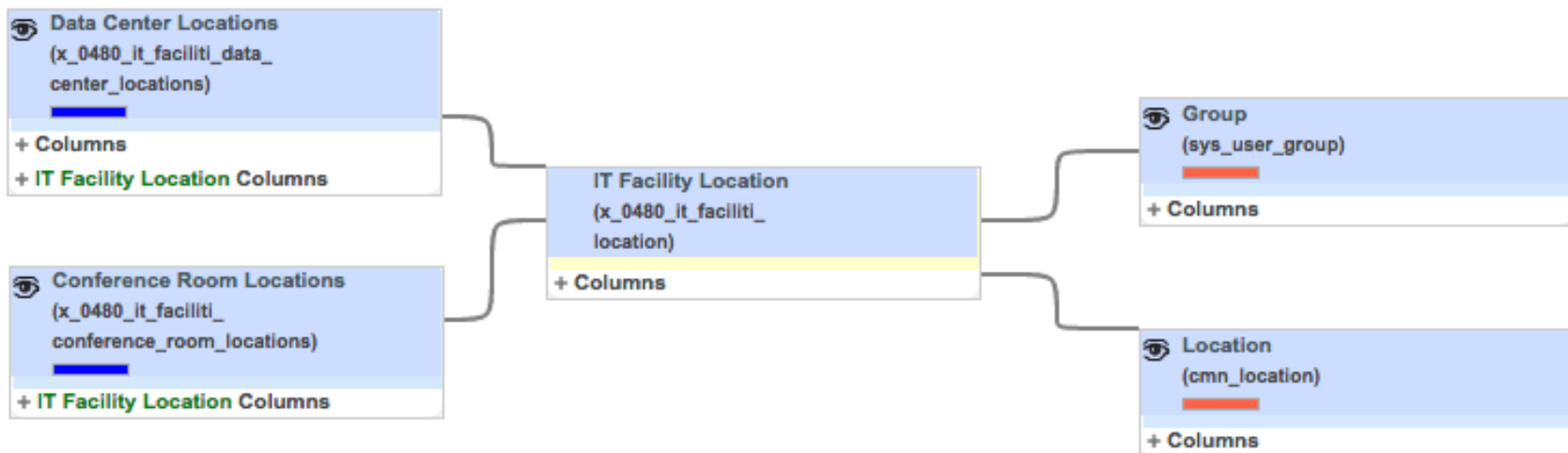 - IDF Closets
  - Conference Rooms

Reference

- **Data Certification Application**

- **Wiki:**
  - **"Scheduled jobs set adrift" by Alex North.**

- **Developer:**
  - **API Reference for GlideSchedule() class.**
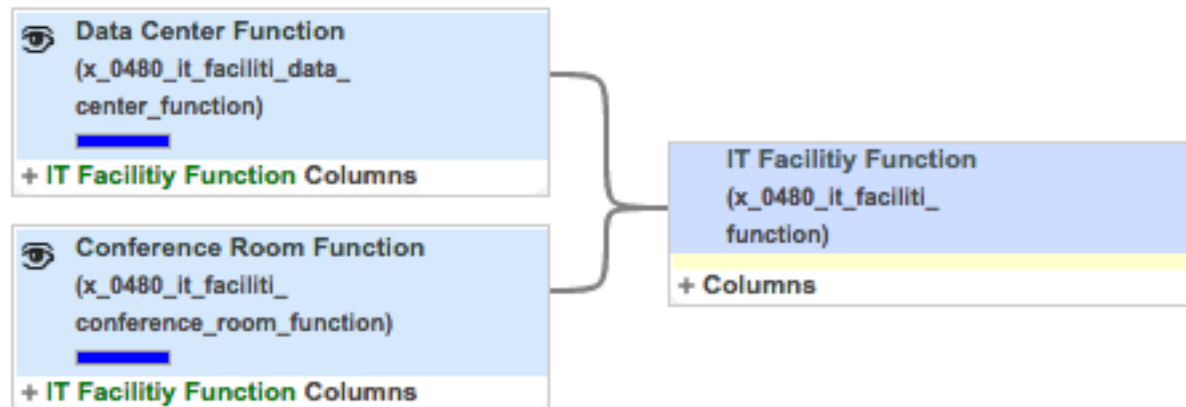
Structure

- **IT Facilities Location.**
  - **Defines room location.**
  - **Relates room to a building.**
  - **Defines assignment group.**
  - **Source for associating a task to a location.**
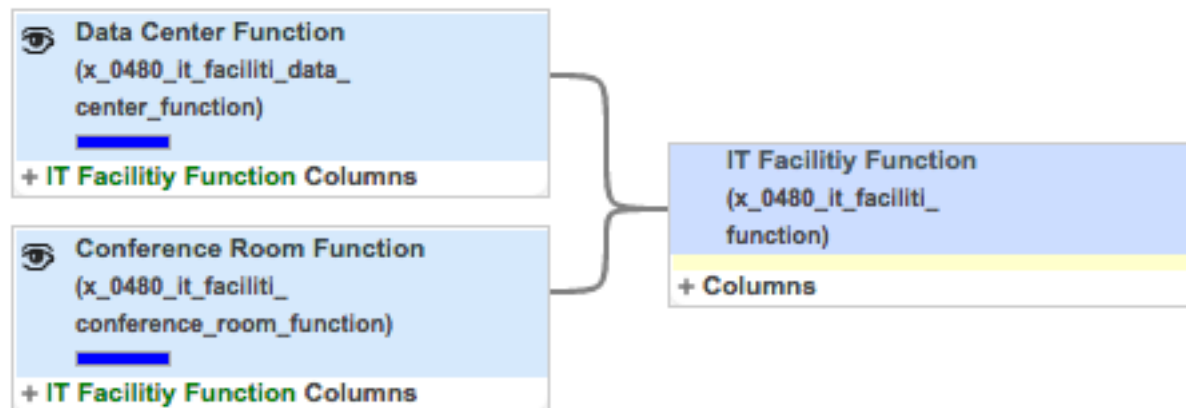
Structure

- **IT Facilities Function.**
  - **Defines template for instructions/execution procedure.**
  - **Used in creating individual task.**
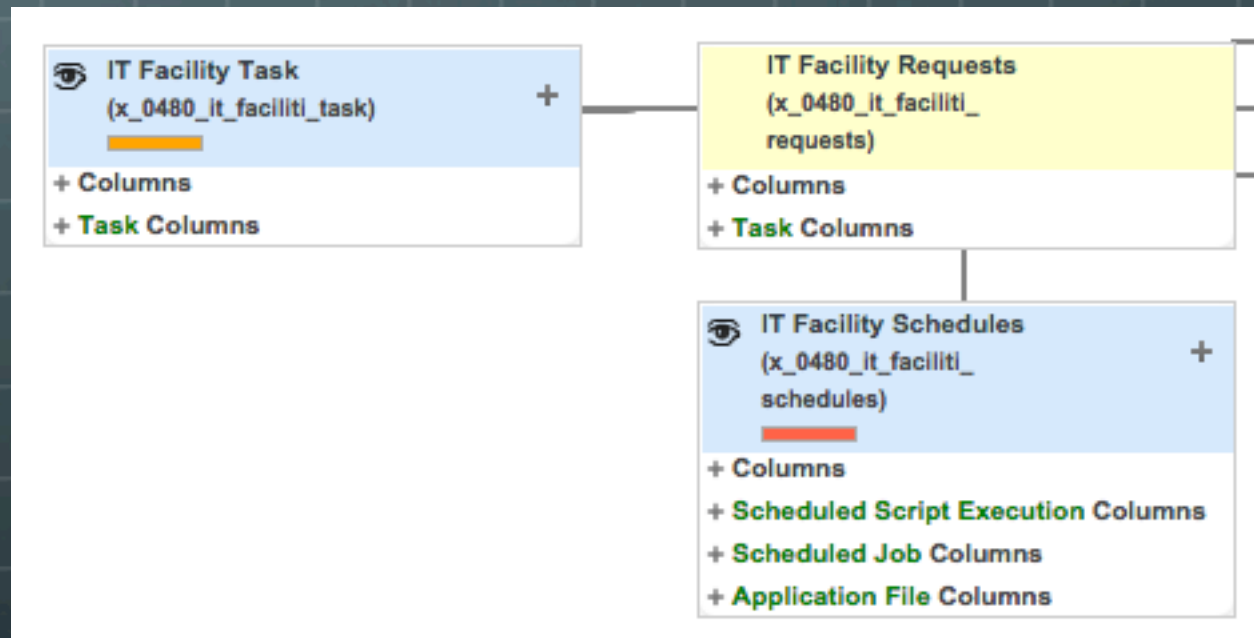
Structure

- **IT Facilities Schedule.**
    - Defines template for general instructions.
    - Defines schedule for creating parent "request" task.
    - References IT Facilities Function.
    - Related list for IT Facilities Locations.

Structure

- **Schedule creates:**
  - **IT Facilities Request (Parent).**
  - **IT Facilities Task (Child). One task per location related to schedule.**

Components

- **Script include:**
  - **ITFacilitiesUtils – handles "next run date".**
  - **ITFacilitiesTaskCreate – handles backend functions invoked by the scheduler via the defined schedule.**

- **Individual "schedule" records.**
  - **The executed script is defaulted into the record on insert. (Only "admin" can see).**

Demo

Questions