**MinistryPlatform Custom Page Planner: Network Devices**

**Purpose/Approach**

An example of a church that tracks network device information. The information is used for network troubleshooting, to communicate static IP address usage between departments, to locate devices in church buildings, indicate if a MAC address has been added to a MAC access control list for wireless devices and if devices are active or in reserve for later use.

Create two tables to keep track of network and computer devices on the RMC network. One table will be a lookup table to the main device inventory table. The purpose of the look up table is to keep track of device types and the users who oversee the use of those devices (coordinator). The main inventory table will track the device names and other useful device characteristics.

|  |  |  |
| --- | --- | --- |
| **Table/Page Information Overview** | | |
| **Page Section/Page Name** | **Page purpose** | **Table Type/Lookup Values** |
| Section - Events and Facilities  Page Name - Network Devices | Inventory all network devices. Need to include the device type, if the device has been added to MAC access control for wireless security. | Type – Page  Lookup values – N/A |
| Section – Lookup Values  Page Name – Network Device Types | List all the available device types on the network. Each device type will be assigned a coordinator. The coordinator is the person who oversees the device type. | Type – Lookup  Lookup values – Audio/Visual, Computer, Firewall/Gateway, Mobile, Printer, Security, Server, Switch, Wireless |

|  |  |  |  |
| --- | --- | --- | --- |
| **Completed?** | **Table Design** | | |
|  | **Table Name** | **Field Name** | **Field Properties** |
|  | RMC\_Network\_Devices | RMC\_Network\_Device\_ID | PK, int, Identity, NOT NULL, increment by 1. |
| Device\_Name | nvarchar(50), NOT NULL |
| Model\_Number | nvarchar(50) |
| Description | nvarchar(225) |
| Room | int, NOT NULL, FK to Rooms table |
| IP\_Address | nvarchar(15) |
| MAC\_Address | nvarchar(17) |
| Device\_Type | Int, NOT NULL, FK to Device Types table |
| Serial\_Number | nvarchar(50) |
| Notes | nvarchar(225) |
| Active | bit |
| In\_MAC\_Address\_Table | bit |
|  |  |
| Domain\_ID | int, NOT NULL |
|  | RMC\_Network\_Device\_Types | RMC\_Network\_Device\_Type\_ID | PK, int, identity, NOT NULL, increment by 1 |
| Network\_Device\_Type | Nvarchar(50), NOT NULL |
| Description | Ncarchar(225) |
| Coordinator | Int, NOT NULL, FK to dp\_Users table |
| Domain\_ID | Int, not null |

**Page Creation**

Create pages titled **Network Devices** and **Network Device Types** with the following properties:

|  |  |
| --- | --- |
| **Page** | **Properties** |
| Network Devices | **Section** – Events and Facilities  **Default Field List** – RMC\_Network\_Devices.Device\_Name, RMC\_Network\_Devices.Model\_Number, RMC\_Network\_Devices.Description, Device\_Type\_Table.Device\_Type, Room\_Table.Room\_Name, RMC\_Network\_Devices.IP\_Address, RMC\_Network\_Devices.Static\_IP, RMC\_Network\_Devices.MAC\_Address, RMC\_Network\_Devices.Serial\_Number  **Selected Record Expression** - Device\_Name  **Start Date Field** – N/A  **End Date Field** – N/A  **Default View** – |
| Network Device Types | **Section** – Lookup Values  **Default Field List** – RMC\_Network\_Device\_Types.Device\_Type, RMC\_Network\_Device\_Types.Description, Coordinator\_Table\_Contact\_ID\_Table.Display\_Name  **Selected Record Expression** - Device\_Type  **Start Date Field** – N/A  **End Date Field** – N/A  **Default View** – |