Update for Simplex FQQ / IDNAC P2P Tool
Feature Quick Quote Takeoff & IDNAC / NAC P2P
Designer with New MX Loop Designer

We are pleased to announce the addition of a **NEW** integrated **MX Loop Designer** to the **FQQ** takeoff estimation tool and **IDNAC/ NAC Point to Point** voltage drop designer. **FQQ** is designed to provide users with an offline enhanced workflow experience facilitating rapid project takeoffs and circuit designs. It utilizes spreadsheet functionality and interfaces with the **Solution Navigator** pricing platform. The **New MX Loop Designer** supports multiple MX Loops in one instance and includes a dedicated **Project Report View** which can be used in conjunction with project submittals and/or handover documentation.

New Rapid Device Selection from dedicated Ribbon Controls

File	FQQ	Quick Quote	IDNAC P2P	NAC P2P	**MX Loop Designer**	Home	Insert	Draw	Page Layout	Formulas

Home Menu | Detectors | Detectors with Isolators | Duct Detector | Modules | Call Points | Pull Stations | LP Sounder Bases | LP Sounder Beacon Bases | LP Wall Sounders | LP Wall Sounder Beacons | LP Wall Sounder WP | LP Wall Sounder Beacon WP

HOME — MX LOOP DEVICES

D11

- Photo Heat Detectors
- Photo Detectors
- Heat Detectors

1 MX PHOTO | 4 inch BASE UL
2 MX PHOTO | 5 inch BASE W/REM LED OUT

Dynamic Device Counts

DETECTORS	PHOTO	2	PHOTO/HEAT	0	HEAT	3	PHOTO/HEAT/CO	0	DUCT	0
BASES	STANDARD	2	CONTINUITY	0	SOUNDER	0	SOUNDER BEACON	3		
CALLS/PULLS	CP INDOOR	2	CP OUTDOOR	0	SINGLE	0	BREAKGLASS	0	PUSH PULL	0
MODULES	SIGNAL IAM	0	ISOLATOR	0	MULTI IO	0	RELAY	3	MONITOR	0
	MINI IAM	0	DUAL IAM	1						
LP SOUNDERS	SOUNDER	3	SDR/BEACON	0	WP SDR	0	WP SDR/BEACON	0		

Color Coded Design Grid Supporting Multiple Topologies, Class A, Class B and T-TAPs

DETECTORS	PHOTO	2	PHOTO/HEAT	0	HEAT	3	PHOTO/HEAT/CO	0	DUCT	0
BASES	STANDARD	2	CONTINUITY	0	SOUNDER	0	BREAKGLASS	0		
CALLS/PULLS	CP INDOOR	2	CP OUTDOOR	0	SINGLE	0	BREAKGLASS	0	PUSH PULL	0
MODULES	SIGNAL IAM	0	ISOLATOR	0	MULTI IO	0	RELAY	3	MONITOR	0
	MINI IAM	0	DUAL IAM	1						
LP SOUNDERS	SOUNDER	3	SDR/BEACON	0	WP SDR	0	WP SDR/BEACON	0		

< 80% of maximum allowed
80-100% of maximum allowed
> 100% of maximum allowed

Item	Loop	Point Label	Description and Setting	Wire Length	Wire Gauge	Address	Device mA	LEDs On	Cable Ω	Isolator Ω	Loop DC Units	Available AC Units	Total Wire	Amps (Left Feed)	Volt Drop (Left Feed)	Volts at Device (Left Feed)	Class A Amps (Right Feed)	Class A Volt Drop (Right Feed)	Volts at Dev Cls A (Right Feed)
1	1-1		ESMX LOOP		14 AWG				9.25		279	375	280	0.070		40.000			
2	1-1		MX PHOTO | 4 inch BASE UL	10	14 AWG	1	3.250	●	9.25					0.070	0.013	39.987	0.003	0.001	37.731
3	1-1		MX PHOTO | 4 inch BASE UL	10	14 AWG	2	3.250	●	9.25					0.067	0.012	39.975	0.007	0.001	37.731
4	1-1		MX HEAT | ADDR LP SOUNDER BEACON BASE | High Volume Fast Flash	10	14 AWG	3, 4	12.050	●	9.25	0.25				0.063	0.262	39.713	0.019	0.253	37.732
5	1-1		MX HEAT | ADDR LP SOUNDER BEACON BASE | High Volume Fast Flash	10	14 AWG	5, 15	12.050		9.25	0.25				0.051	0.259	39.454	0.031	0.256	37.986
6	1-1		MX HEAT | ADDR LP SOUNDER BEACON BASE | High Volume Fast Flash	10	14 AWG	16, 17	12.050	●	9.25	0.25				0.039	0.257	39.196	0.043	0.258	38.242
7	1-1		INDOOR UL CP W ISOLATOR MX	10	14 AWG	6	0.300		9.25	0.25				0.027	0.255	38.941	0.043	0.258	38.499
8	1-1		INDOOR UL CP W ISOLATOR MX	10	14 AWG	7	0.300		9.25	0.25				0.027	0.255	38.686	0.043	0.258	38.757
9	1-1		MX RELAY IAM	10	14 AWG	8	0.300		9.25					0.027	0.005	38.681	0.044	0.008	39.015
10	1-1		MX RELAY IAM	10	14 AWG	9	0.300		9.25					0.026	0.005	38.677	0.044	0.008	39.023
11	1-1		MX RELAY IAM	10	14 AWG	10	0.300		9.25					0.026	0.005	38.672	0.044	0.008	39.032
12	1-1		MX DUAL INPUT IAM	10	14 AWG	11	0.250		9.25					0.026	0.005	38.667	0.044	0.008	39.040
13	1-1		ADDR WALL SOUNDER RED | High Volume	10	14 AWG	12	8.475		9.25	0.25				0.025	0.255	38.412	0.053	0.260	39.048
14	1-1		ADDR WALL SOUNDER RED | High Volume	10	14 AWG	13	8.475		9.25	0.25				0.017	0.253	38.159	0.061	0.261	39.308
15	1-1		ADDR WALL SOUNDER RED | High Volume	10	14 AWG	14	8.475		9.25	0.25				0.008	0.252	37.908	0.070	0.431	39.569
16	1-1		MX LOOP RETURN	140	14 AWG				9.25					0.070		40.000			
Total																			

1. **Class A Main Loop**
2. **T-Tap from Main Loop**
3. **T-Tap off a T-Tap**
4. **Auto Addressing of Devices and Device Combinations**

```
DETECTORS | PHOTO      2 | PHOTO/HEAT  0 | HEAT      3 | PHOTO/HEAT/CO  0 | DUCT       0 |
    BASES | STANDARD    2 | CONTINUITY  0 | SOUNDER   0 | SOUNDER BEACON 3 |
CALLS/PULLS | CP INDOOR  2 | CP OUTDOOR  0 | SINGLE    0 | BREAKGLASS     3 | PUSH PULL  0 |
  MODULES | SIGNAL IAM  0 | ISOLATOR    0 | MULTI IO  0 | RELAY          4 | MONITOR    0 |
          | MINI IAM    0 | DUAL IAM    2 |
LP SOUNDERS | SOUNDER    3 | SDR/BEACON  0 | WP SDR    0 | WP SDR/BEACON  0 |
```

Select across these 4 columns to edit devices

Item	Loop	Point Label	Description and Setting	Wire Length	Wire Gauge	Address
1	1-1		ESMX LOOP		14 AWG	
2	1-1		MX PHOTO | 4 inch BASE UL	10	14 AWG	1
3	1-1		MX PHOTO | 4 inch BASE UL	10	14 AWG	2
4	1-1		MX HEAT | ADDR LP SOUNDER BEACON BASE | High Volume Fast Flash	10	14 AWG	3, 4
5	1-1		MX HEAT | ADDR LP SOUNDER BEACON BASE | High Volume Fast Flash	10	14 AWG	5, 15
6	1-1		T-TAP/SPUR		14 AWG	
7	1-1		MX PULL STATION DOUBLE ACTION	10	14 AWG	18
8	1-1		MX PULL STATION DOUBLE ACTION	10	14 AWG	19
9	1-1		T-TAP/SPUR		14 AWG	
10	1-1		MX RELAY IAM	10	14 AWG	21
11	1-1		MX DUAL INPUT IAM	10	14 AWG	22
12	1-1		END		14 AWG	
13	1-1		MX PULL STATION DOUBLE ACTION	10	14 AWG	20
14	1-1		END		14 AWG	
15	1-1		MX HEAT | ADDR LP SOUNDER BEACON BASE | High Volume Fast Flash	10	14 AWG	16, 17
16	1-1		INDOOR UL CP W ISOLATOR MX	10	14 AWG	6
17	1-1		INDOOR UL CP W ISOLATOR MX	10	14 AWG	7
18	1-1		MX RELAY IAM	10	14 AWG	8
19	1-1		MX RELAY IAM	10	14 AWG	9
20	1-1		MX RELAY IAM	10	14 AWG	10
21	1-1		MX DUAL INPUT IAM	10	14 AWG	11
22	1-1		ADDR WALL SOUNDER RED | High Volume	10	14 AWG	12
23	1-1		ADDR WALL SOUNDER RED | High Volume	10	14 AWG	13
24	1-1		ADDR WALL SOUNDER RED | High Volume	10	14 AWG	14
25	1-1		MX LOOP RETURN	40	14 AWG	
Total						

Dedicated Ribbon Controls for Adding Hardware, Editing and Project Views

New Loop | Add 2nd Loop to Card | Loop Return | Branch | Tap | End Tap | Copy Selection | Copy Loop | Readdress Loop | Delete Selection | Push Wire | Push Gauge | Reset Project | Designer View | Project View | Bill of Materials

ADD HARDWARE · CONTROLS AND EDITING · PROJECT

Loop Designer Settings can be saved as project defaults

Wire Length	10	Unit of Measure	Meters
Wire Gauge	14 AWG	LED's on Concurrently	5
Wire Temperature	50°C (122°F)	MICC High Capacitance Cable	Yes

MX LOOP DESIGNER SETTINGS

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Integrated Battery Calculations:
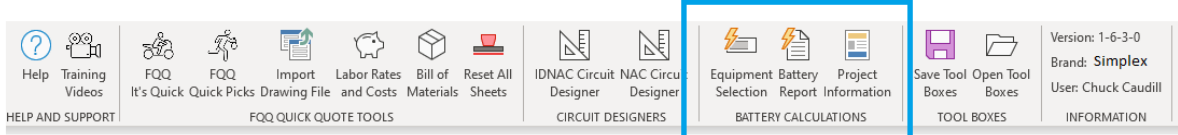
- New Battery Calc features include:
  - Import function supports part code importation from:
    - FQQ IDNet
    - FQQ IDNAC
    - FQQ NAC
    - FQQ File Import (Blue Beam .csv file)
    - Navigator BOM export (configured panel builds)
    - IDNAC Designer
    - NAC Designer
  - Catalogue Search with user defined Favorites
  - Manual Search by part code
  - Support for 8 battery groups in one calculation
  - Printable battery calculation with itemized panel and field device current draws
  - Exportable spreadsheet calculation

- Existing Features:

  - Editable toolboxes to support multiple design types
  - Toolbox export/ import for future revision support
  - MX Digital Loop support (select market availability)
  - Support for Foundation Series
  - Battery support for NAC Extenders and IDNAC Repeaters
  - Estimated average circuit loading added to IDNAC
  - Home Screen Ribbon Controls with one click access to Training Videos
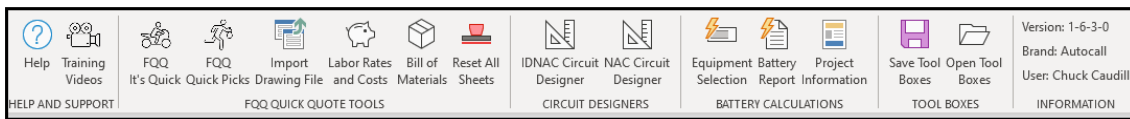
- Dedicated selector screens for IDNet, IDNAC, NAC, 3rd Party Items, MX Digital Loop, Quick Picks, Foundation Series and 4007ES
- Integrated Labor Calculator
- .CSV Importation for takeoff totals from external programs such as Bluebeam Revu ®
- Bill of Materials view with selection filter
- .CSV Exportation to Selection Navigator for Pricing

- **IDNAC Point to Point Circuit Designer Updates**:
  - Multiple IDNAC support
  - Addition of toolboxes for multiple design types
  - Simplified interface for adding/ editing devices
  - **Repeater Battery Calculation** support
  - **Project View** for submittal
  - **Circuit Drawing**, single or multiple IDNAC display options
  - **SIG Circuit Assignment**
  - **Install View** with device dipswitch settings
  - **Spare Capacity** assignment for IDNACs
- **NAC Point to Point Circuit Designer**
  - Multiple NAC support
  - Multiple source NAC starting voltages
  - Support for Max Value & custom NAC devices

  Note: Microsoft Excel 365 is required to run FQQ/ IDNAC Point to Point Circuit Designer

Summary of FQQ:

Manual Device Selection

- Customizable columns headers, example: Floor 1, Floor 2, Floor 3, etc.
- IDNet device groups; addressable detectors, duct detectors, input modules, etc.
- Pre-configured device pairing selections; example: Smoke Detector with Standard Base
- IDNAC & Conventional NAC feature customizable toolbox device selectors that allow users to tailor the spreadsheet tool for business model or vertical market
- Third Party Items tab allows user to easily customize takeoff for Non-JCI products
- MX Digital Loop selector
- Future support of Foundation Series
- 4007ES Quick Select allows pre-selected 4007ES systems to be chosen for rapid pricing in Selection Navigator with field device selections
- Automatic battery calculation/ order capability for IDNet NAC Extenders

Automatic Calculation of Manual Selectors

	Totals	Floor 1/ E101	Floor 2/ E102	Floor 3/ E103
IDNet Information per designation				
IDNet Addresses per designation	118	56	31	31
IDNet Unit Loads per designation	118	56	31	31
emote 24V Standby Loads mA for 4 wire IDNet Devices per designation				
Remote 24V Alarm Loads mA for 4 wire IDNet Devices per designation				
24V Alarm Loads mA for Sounder Bases per designation				
Estimated number of IDNet Loops/Channels required	3	1	1	1
Estimated Number of IDNet Loops/Channels based on Addresses		1	1	1
Estimated Number of IDNet Loops/Channels based on Unit Loads		1	1	1
Estimated Number of IDNet Loops/Channels based on NAC Extenders				

- FQQ device selections are automatically tallied
- Logical selection process follows a typical design take off, providing useful calculations on estimated number of Loops, Addressable NACs, Repeaters, Speaker Wattage and Cable Calculations allowing the user to set base preferences such as spare design capacity.
- IDNAC/ Conventional NAC customizable selections for load calculations
  - Speaker wattage
  - Circuit Length
  - Wire Gauge, Temperature and Unit of Measure
  - Estimated Average Circuit Loading
  - Automatic battery calculation/ order capability for IDNAC repeaters

Small Panel Takeoff Configurators

- Foundation Series system designer with selectable field devices
  - Verification of panel capacities versus device selection
  - Creation of exportable battery calculation for Foundation series
  - 4007ES Quick Select allows pre-selected 4007ES systems to be chosen for rapid pricing in Selection Navigator with field device selections. Includes basic battery calculation for addition to BOM

Third Party Items
- Third Party Items tab allows user to easily customize takeoff for Non-JCI products & services

MX Digital Loop Device Selector (select market availability)
- Full support of MX Digital Loop devices as shown above in IDNet selector

Quick Picks Selector
- Full library of all available products for manual entry by part code
- Allows simple addition of "spare devices" without affecting loop requirement calculations
- Comprehensive search by product headers, sub headers, work categories, part code or descriptions.

Home Menu	IDNAC Circuit Designer	NAC Circuit Designer	FQQ It's Quick	Bill of Materials	Labor Rates and Costs	Reset Quick Picks	Reset Filters	Filtered Navigator CPQ / CSV	Create Filtered BOM File	Filtered Compass CSV Import File

Select from the below drop down menus to search

Product Headers	
Product Sub Headers	
Product Work Categories	
Search by part code	Search by description

Show All

Labor Rates and Costs Calculator
- Device selection totals are compiled in Labor tab for costing with customizable labor rates
  - Separate Installation, Commissioning and Service columns
  - Hours, Rates and Allowances configurable by Work Type
  - Labor Rates Configurable by Working Periods (Weekdays and Weekends)

Enter Hours and Minutes for each product category per work type

Installation			Commissioning			Service		
Totals	Hours	Minutes	Totals	Hours	Minutes	Totals	Hours	Mins
10		10	10		10	10		5
1		45	1		30	1		15
10		20	10		20	10		5
0		30	0		30	0		10
7		30	7		20	7		5
10		20	10		20	10		5
0		20	0		10	0		5
0		20	0		30	0		5
0		20	0		20	0		5
0		5	0		5	0		5
0		5	0		5	0		5
0		5	0		5	0		5

Define hours, rates and allowances for each of the working periods for each work type as required

Hrs / Day	Hourly Rate	Cost / Day	Round Days	Total Days	% Work Mix	Travel / Day	Allow 1 / Day	Allow 2 / Day
8	$100.00	$800.00	Full Day	4.00	80%	$50.00	$50.00	$50.00
8	$150.00	$1,200.00	Full Day	4.00	10%	$50.00	$50.00	$50.00
8	$200.00	$1,600.00	Full Day	4.00	10%	$50.00	$50.00	$50.00
					100%			
8	$100.00	$800.00	Full Day	2.00	100%	$0.00	$0.00	$0.00
8	$150.00	$1,200.00	Full Day	2.00	0%	$0.00	$0.00	$0.00
8	$200.00	$1,600.00	Half Day	2.00	0%	$0.00	$0.00	$0.00
					100%			
8	$100.00	$800.00	Full Day	1.00	100%	$0.00	$0.00	$0.00
8	$150.00	$1,200.00	Half Day	1.00	0%	$0.00	$0.00	$0.00
8	$200.00	$1,600.00	Half Day	1.00	0%	$0.00	$0.00	$0.00
					100%			

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Import Drawing .CSV File for IDNet and IDNAC from Bluebeam Revu ®

Enter Spare Design Capacity for IDNet Circuits	20%	**Column 1**
IDNet Information per column/designation		**Bluebeam Devices**
IDNet Addresses per designation	77	77
IDNet Unit Loads per designation	77	77
Remote 24V Standby Loads mA for 4 wire IDNet Devices per designation	3 mA	3 mA
Remote 24V Alarm Loads mA for 4 wire IDNet Devices per designation	15 mA	15 mA
24V Alarm Loads mA for Sounder Bases per designation	918 mA	918 mA
Estimated number of IDNet Loops/Channels required	1	**1**
Estimated Number of IDNet Loops/Channels based on Addresses		1
Estimated Number of IDNet Loops/Channels based on Unit Loads		1
Estimated Number of IDNet Loops/Channels based on NAC Extenders		

- Import .CSV takeoff list from popular drawing takeoff programs
- Customizable columns headers, example: Floor 1, Floor 2, Floor 3, etc.
- Map file import to selectable Columns for multiple imports in a session
- User can create custom descriptions for imports or use default Master descriptions
- Customizable spare capacity for addressable points and circuit loading
- Imported device totals are automatically tallied
- Logical selection process follows a typical design take off, providing useful calculations on estimated number of Loops, Addressable NACs, Repeaters, Speaker Wattage and Cable Calculations allowing the user to set base preferences such as spare design capacity
- IDNAC/ NAC customizable selections for load calculations
  - Speaker wattage
  - Circuit Length
  - Wire Gauge, Temperature and Unit of Meas

Bill of Materials and .CSV Export

- Customize Bill of Materials from any of the following sections:

  - IDNAC Designer
  - NAC Designer
  - MX Loop Designer
  - Quick Quote
  - Quick Picks
  - Drawing File Import

☑ IDNAC Designer	☑ Quick Quote	
☑ NAC Designer	☑ Quick Picks	
☑ ESMX Loop Designer	☑ File Import	
	LABOR AND BOM SELECTION FEED	

- Create a .CSV file export that can be uploaded to Selection Navigator for rapid pricing versus adding products individually via **Products** or **System Selectors**

Home Menu	IDNAC Circuit Designer	NAC Circuit Designer	FQQ It's Quick	FQP Quick Picks	Labor Rates and Costs	Selection Navigator CPQ / CSV	Create BOM File	Create Compass CSV Import File

User Defined Custom items marked with ★ will not be included in Selection Navigator CSV files

Description	Partcode	Quantity
Wall Speaker HiFi	A49HF-APPLW	1
Red Fire Cover Wall Mount	A49SOC-WRFIRE	1
Red Mounting Plate	A49MP-SOWR	1
Wall Speaker Strobe	A49SV-APPLW	1
Red Fire Cover Wall Mount	A49SVC-WRFIRE	1
Red Mounting Plate	A49MP-SVWR	1
Ceiling Speaker Strobe HiFi HiCd Amber BA	A49HFVH-APLCA-BA	3
Red Fire Cover Ceiling Mount	A49SVC-CRFIRE	3

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# IDNAC Point to Point Circuit Designer Enhancements

- Custom Ribbon and Toolbar controls redesigned to improve user experience
- Addition of toolboxes for multiple design types

		Point Label	Type	Appliance	Setting	Cover	Wire Length	Wire Gauge	Device Use
	1	Wall Chime	Wall Chime	Chime	Red Fire	50	14 AWG	Fire
	2	Wall Speaker	Wall Speaker HiFi	IDNAC Load	Red Fire	50	14 AWG	Fire
	3	Wall Horn Strobe	Wall Horn Strobe	75 cd	Red Fire	50	14 AWG	Fire
	4	Wall Strobe	Wall Strobe	30 cd	Red Fire	50	14 AWG	Fire
	5	Wall Strobe	Wall Strobe	75 cd	Red Fire	50	14 AWG	Fire
	6	Wall Speaker Strobe	Wall Speaker Strobe	110 cd	Red Fire	50	14 AWG	Fire
	7	Wall Multi Tone Horn Strobe	Wall Multi Tone Horn Strobe	520Hz Low 15 cd	Red Fire	50	14 AWG	Fire
	8	Ceiling Speaker Strobe	Ceiling Speaker Strobe HiFi HiCd Amber	110 cd	Red Fire	50	14 AWG	Fire
	9	Wall Speaker Strobe	Wall Speaker Strobe	110 cd	Red Fire	50	14 AWG	Fire
	10	Ceiling Horn	Ceiling Horn	Horn	Red Fire	50	14 AWG	Fire
	11	Wall Speaker Strobe	Wall Speaker Strobe	15 cd	Red Fire	50	14 AWG	Fire
	12	Wall Speaker Strobe	Wall Speaker Strobe	110 cd	Red Fire	50	14 AWG	Fire
	13	Wall Speaker Strobe	Wall Speaker Strobe	110 cd	Red Fire	50	14 AWG	Fire
	14	Wall Multi Tone Horn	Wall Multi Tone Horn	520Hz High	Red Fire	50	14 AWG	Fire
	15	Wall Speaker Strobe	Wall Speaker Strobe	110 cd	Red Fire	50	14 AWG	Fire
	16	IDNAC	IDNAC	N/A	Not Required	50	14 AWG	Fire

Circuit Tree	Amps
IDNAC	1.241
Branch	1.241
Wall Horn Strobe	1.241
Wall Horn Strobe	1.134
Wall Horn Strobe	1.027
Wall Horn Strobe	0.92
Terminal Cabinet	0.813
> Terminal 1	0.057
> Wall Strobe	0.057
> End Terminal	0
> Terminal 2	0.057
> Wall Strobe	0.057
> End Terminal	0
> Terminal 3	0.057
> Wall Strobe	0.057
> End Terminal	0
End Cabinet	0.642
Wall Horn Strobe	0.642
Wall Horn Strobe	0.535
Wall Horn Strobe	0.428
Wall Horn Strobe	0.321
Wall Horn Strobe	0.214
Wall Horn Strobe	0.107

- Multiple IDNAC support
- Insert and Add Multiple Devices
- Voltage Drop and Current Calculator
- Color Coded Meters per Node
- Support for Spare Design Capacity
- Designer for IDNAC Class A, Class B & mixed Class A & B circuits
- IDNAC Repeater support - Class A, B and Extended Mode
- Automated Repeater Battery Calculations
- Circuit Tree View with Easily Identifiable Tap Levels
- Show Wire Path Option
- Exportable Project View for Submittals
- New "Future and Now" feature
- New "Flex Connect" Option
- New "Push" Wire and Gauge feature
- New Auto Addressing Modes.
- New FQECM – Quick Error Checking Matrix for Rapid Troubleshooting
- New Circuit Riser Drawing
- New SIG Circuit assignment to IDNACs
- Install view with dipswitch settings
- Spare Capacity Reserve for IDNACs

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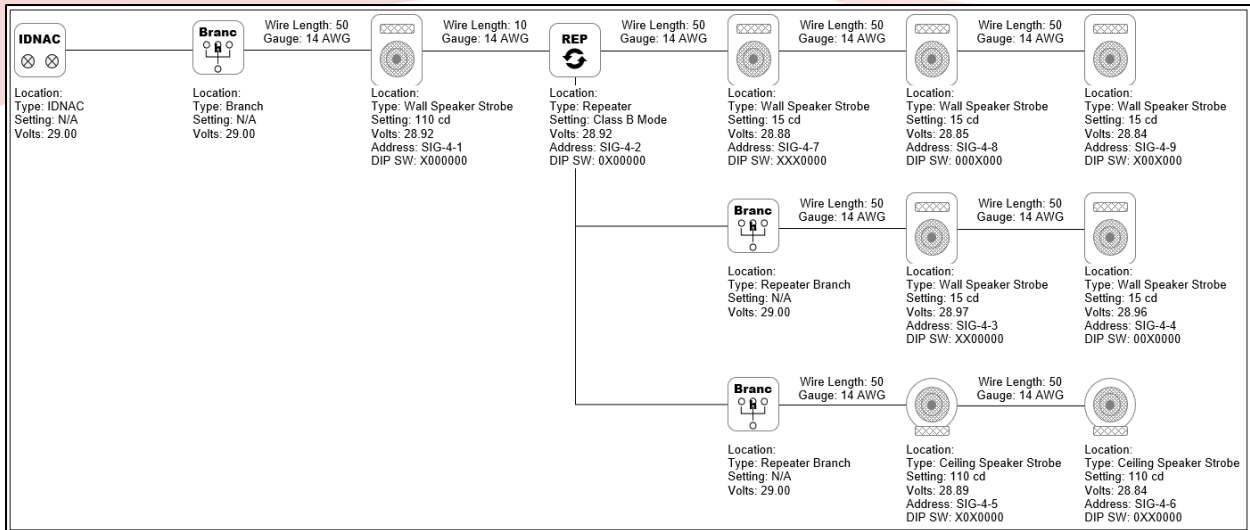
FQQ Takeoff Tool w/ IDNAC P2P Designer can be downloaded at FQQ & IDNAC P2P Tool

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