

Smart Home Proposal

Prepared for: James Bond

Project Address: LONDON

Date: 29/05/2023

5 Bed Detached House



Meet the team: jsjelec.com/team



In 2009 JSJ was birthed out of frustration with the expense and complication associated with Home Automation. Our vision is to give homes a more affordable, safe & yet highly intelligent solution by working closely with our partners at Loxone. Our vision has and will always be to bring all the functional aspects of the home into 1 place, from Security and Lighting, right through to Fire Safety.

Our Mission

It is our mission to be the technology catalyst for the building industry by using 1 platform to control multiple aspects of the home. JSJ are passionate and committed to making Home Automation affordable and accessible for everyone. We are inspired and driven to find ways that can provide the highest levels of comfort, convenience, fun and peace of mind.

1 App1 User Experience1 Thing to Learn

www.jsjelec.com



QTY		UNIT PRICE	DESCRIPTION	O&M DESCRIPTION
			LIGHTING: £2674.03	
	11	£0.00	Dimmable circuit - Individual dimmed circuits required. There is 1 dimmer module to every 4 circuits. Cost shown here is the average cost per output, please see dependencies for more details. 1 dimmer output controls is circuit, for example a bedroom with 6 downlights is classified as 1 circuit.	In contrast to conventional lighting which is mechanically controlled, these dimmer outputs are electonically controlled so they are configurable by you as the user in an instant. These dimmers work with virtually any light fittings. Good quality LED bulbs recommned for the best dimmming curve.
	31	£0.00	Relay - Lighting - Individual relays required. There is 1 module to every 14 circuits. Cost shown here is the average cost per output, please see dependencies for more details. 1 relay controls 1 circuit, for example a bathroom with 4 downlights is classified as 1 circuit.	In contrast to conventional lighting which is mechanically controlled, these relays are electonically controlled so they are configurable by you as the user in an instant. These relays works with any fittings even existing chandeliers etc,
0 0	п	£22.52	1 switch, 2 position - Typical budget allowed for a premium switch, use any switch, from any manufacturer in many finshes: E.g Brushed SS, White Metal, etc. Typical use is lights & all off function, e.g at Entrance switch	Tap button once to scroll through lighting scenes, double tap middle to turn off room. At the main entrance & master bedroom switch, hold down for 3 sees to shutdown the entire house. Triple tap switch in the main entrance to arm the alarm which in turn will shut down the entire house.
	3	£31.79	2 switches, 2 position - Typical budget for premium switch, use any switch, from any manufacturer in many finshes: E. g. Brushed SS, White Metal, etc. Typical use is light control multiple areas from one point	Tap button once to scroll through lighting scenes, double tap middle to turn off room. At the main entrance & master bedroom switch, hold down for 3 sees to shutdown the entire house. Triple tap switch in the main entrance to arm the alarm which in turn will shut down the entire house.
	10	£40.48	2 switches, 2 & 3 position - Typical budget for a contemporary toggle switch switch, use any switch, from any manufacturer in many finshes: E.g Brushed SS, White Metal, etc. Typical use is lights & multiple blinds/window control	$Tap\ up/down\ button\ to\ control\ blinds/curtains\ up/down\ respectively.$
2	24	£80.26	6 Digital Inputs - The Nano DI Tree fits easily into any back box - making it easier to use third-party switches and sensors but leveraging the Loxone Tree network to reduce cabling	
Tål	1	£0.00	Associated labour for deploying peripherals in the field, assisting the installers with wiring schematics. Also time allowed for debugging typical issues associated with deploying such systems.	
			HEATING & VENTILATION: £1216-17	
	22	£8.60	Temperature Zone - Embeded sensor, allows any switch to become a thermostat	Used as the thermostat in the respective room/zone. These temp sensors are embeeded in every light switch and provide temperature readings in each room, hence reducing wall clutter. Control each room independantly from your Loxone app or wall station if requested.
Later Control of the	5	£205.38	AC Interface (Intesis Box) - Air Conditioning - Complete control of your AC system, fully integrated with your smart home. We'll ensure your heating and AC never clash. HVAC supplier to only supply 1 thermostat/zone out of site in a hatch for maintainance	Hidden interface to AC system. Heating used as a secondary source to bring a room to temperature in the event there is a large difference between the target and actual room temp. Temperature reading from localised room temp specified seperately. Comfort heating temp: 22.5°, comfort cooling temp is 24.5°, inbetween this range (dead band) your room will do nothing. This wider the range the more efficient your system is.
" "	6	£0.00	Relay - Radiator - Radiator - Individual relay control for 1 zone, 1 electric thermostatic radiator valve per radiator. Typically triggered via timer, temperature and/or presence	
	17	£0.00	Relay - Wet UFH Heating - Individual relay control for 1 zone on the under floor heating on the manifold. Typically triggered via timer, temperature and/or presence	
	6	£0.00	Relay - Towel Rail - Individual relay control. Typically triggered via timer, temperature and/or presence	
	7	£0.00	Relay - Extractor fan control - Ventilation - Individual relays required. There is 1 module to every 8 circuits. Cost shown here is the average cost per output, please see dependencies for more details.	Triggers after 2 minutes of presence in a bathroom or increased humidity above 65%
· O	1	£0.00	Boiler Wiring Centre - Heat Enable - Interlink between all manifolds to mechanically trigger boiler.	
° 0	1	£0.00	Boiler Wiring Centre - Zone Valves & Power to Panel - Individual relay control for x2 2/3 port valves alongside feed back to panel to ensure all heating is on 1 circuit. 1/ypically triggered via 1 more zone demand	
TA	1	£0.00	Power Supply Heating/Manifolds - Power Supply to all Manifolds	
Tol	1	£0.00	Associated labour for deploying peripherals in the field, assisting the installers with wiring schematics. Also time allowed for debugging typical issues associated with deploying such systems.	

			SECURITY: £1865.11	
	13	£15.84	Door Contacts Hidden - Used to determine the status of doors, to be embeded into any doorframe so is virtually invisible.	Your Miniserver alerts you when doors and windows are opened without permission even without arming your alarm. From your door and window monitor in the app, see how many window/doors have been left opened. If you open a window in a room that's currently being heated, the Window Contact will signal the Miniserver to lower the heating, ensuring you never throw money out of the window. Pervent damaging motorised blinds/shutters by
	5	£162.66	Dahua CCTV Camera - External CCTV - This camera comes in many shames, sizes and form factors. Choice of a dark grey colour or white.	Al is used differentiate between a human and any animal in your garden after hours. Also, whicle detection, camera masking detection and trip wire detection will be setup for granular security. Your system is on continuos recording and in the event of any of the above alarm triggers, a notification with a recoding of the event time frame will be given to you via a pop up instantly. Direct App link from Loxone to Dahua's DMSS app for CCTV
*	3	£162.66	Dahua CCTV Camera - Internal CCTV - This camera comes in many shames, sizes and form factors. Choice of a dark grey colour or white.	Al is used differentiate between a human and any animal in your garden after hours. Also, vehicle detection, camera masking detection and trip wire detection will be setup for granular security. Your system is on continuos recording and in the event of any of the above alarm triggers, a notification with a recoding of the event time frame will be given to you via a pop up instantly. Direct App link from Loxone to Dahua's DMSS app for CCTV
1 2 3 12 4 5 6 0 7 8 9 ✓	1	£296.74	NFC Code Touch Tree (Keypad) - NFC Code touch from Loxone, The perfect access control solution. The NFC Code Touch for control of your door, gate, garage and/or alarm. Includes fobs	Pin Based Alarm Keypad - Function 1: Arm Alarm, Function 2: Disarm Alarm. Each user can set a code within the User Management section of the Loxone App, that code works on all keypads. Each keypad has up to 6 functions. For example, function 3 can be triggered by entering 3, followed by a tick and entering your user code or by typing 3 and swiping your fob, Funtion 1 can be triggered by simply entering your code and pressing the tick button or by
	1	£61.20	External Sounder - External sounder to warn intruders before hand that you have a sophisticated alarm	The burglar alarm within Loxone has 5 key stages that are seperated by time: Arming delay is 60s (Da), Silent Alarm 15s (D1), Visual 30s (D3), Internal Audible Alarm 45s (D4). External Audible Alarm 60s (D3), So a fier 1 minute your alarm will be in full flow to agitate any intruders. These delays can all be updated in expert setting within the Loxone app.
Tôi	1	£0.00	Associated labour for deploying peripherals in the field, assisting the installers with wiring schematics etc. Also time allowed for debugging typical issues associated with deploying such systems.	
			ACCESS CONTROL: £1495.20	
. j	1	£0.00	Relay - Door Release - Individual relays required. Typically triggered via a fob, keypad, button press or voice	
	2	£0.00	Relay - Gates Dry Contact - Individual relays required. Typically triggered via a fob, keypad, button press or voice	
	1	£0.00	Relay - Shutters Dry Contact - Individual relays required. Typically triggered via a fob, keypad, button press or voice	
. · · · · · · · · · · · · · · · · · · ·	1	£564.00	Intercom - Loxone Intercom GEN 2 - Anthracite - FOE power supply for interom. Timeless, elegant design with real glass satin-finish surface. Comes in black or white	Smart intercom, initiates audio connection upon presence to reduce audio connection delays when the doorbell has been rung. The doorbell chime plays and/or the speakers in the house pause any music then play a chime sound to trigger awareness, the audio if any continues where it left off from. Lights can also flash to trigger awareness to aid those with impared hearing.
© 	1	£931.20	Intercom - Loxone Intercom GEN 2 + NFC - Anthracite - POE power supply for interom. Timeless, elegant design with real glass satin-finish surface with inbuilt keypad. Comes in black or white	Smart intercom, initiates audio connection upon presence to reduce audio connection delays when the doorbell has been rung. The doorbell chime plays and/or the speakers in the house pause any music then play a chime sound to trigger awareness, the audio if any continues where it left off from. Lights can also flash to trigger awareness to aid those with impared hearing. Pin Based Access Control Keypad - Function 1: Open Drive Gate, Function 2: Open
781	1	£0.00	Associated labour for deploying peripherals in the field, assisting the installers with wiring schematics. Also time allowed for debugging typical issues associated with deploying such systems.	
			GENERAL AUTOMATION: £959.90	
	9	£106.66	Flush Mounted Presence Sensor Tree - Used to detect motion and brightness. As one of the most important sensors in the smart home, it provides information for useful features like alarms, lighting and energy saving. Comes in black or white.	Rooms with presence detection. When you walk into a room, the light will turn on for a minimum of 5 minutes (TH) and will remain on while there is still presence detected. If lights are manually switched on, after 30 mins (MT) of no motion (absence scene), the lights will automatically switch off, this is set to 120 mins in the Kitchen and Living room. If lights are manually turned off, motion detection will be disabled for 5 minutes (Ti). There will be 2 presence moods per
Tôl	1	£0.00	Associated labour for deploying peripherals in the field, assisting the installers with wiring schematics. Also time allowed for debugging typical issues associated with deploying such systems.	
			DATA: £167.94	
U	5	£153.59	Ubiquity AP Pro WiFi Access Point - Used to extend the WiFi in your home into 1 seemless large & robust network	



Associated labour for deploying peripherals in the field, assisting the installers with

1 £0.00 wiring schematics. Also time allowed for debugging typical issues associated with

deploying such systems.

			AUDIO & VISUAL: E5805.08	
	13	£98.79	Sonanace Mono Speaker (VP60R) - Entry level speaker, used for general background music	
	7	£248.16	Stereo Extension - Each Stereo Extension adds 2 more amplifier outputs to the Audioserver - giving you a scaleable audio solution.	
	1	£2,293.70	Sonos Surround Set - Enjoy a cinematic experience with breathtakingly realistic surround sound and buzz-free bass plus the 3D experience of Dolby Atmos. Includes brackets for the soundbar and rear speakers.	
TÅ	1	£490.00	Associated labour for deploying peripherals in the field, assisting the installers with wiring schematics. Also time allowed for debugging typical issues associated with deploying such systems.	
			WEATHER, SHADING & MOTORISED APPLIANCES: £312.00	
() ()	5	£0.00	Relay - 230V Blinds - Blinds/Curtians - Individual relays required. Typically triggered via a button press, weather, time of day, sunshine direction and voice	
a com	2	£156.00	Velux KLF 200 interface - The VELUX KLF 200 interface unit is for connection to external commands or to use as a relay station to increase range	
Tôl	1	£0.00	Associated labour for deploying peripherals in the field, assisting the installers with wiring schematics. Also time allowed for debugging typical issues associated with deploying such systems.	
		L	DXONE EQUIPMENT & AUTOMATION PANELS + SUNDRIES: £8464-96	
	1	£642.05	Miniserver Gen 2 - The brain of your Loxone system and can look after everything around the house, from simple lighting to intelligent zoned heating control	_
1000 Marianto	3	£451.97	Dimmer Extentions - With the Loxone Dimmer Extension you can dim all types of lights including LEDs. Simple!	
	7	£330.53	Relay Extentions (+14 Relays) - Expand your Loxone system with 14 hefty 16A relays to switch even the biggest loads with ease.	
	2	£181.63	1 Wire - Use 1-Wire sensors as part of your Loxone system as they are very cost effective for installations with large numbers of sensors	
	1	£67.58	24V Power Supply (4.2A) - DIN rail mounted power supply from TDK-Lambda	
The state of the s	1	£157.34	10A Power Supply - DIN rail mounted power supply from TDK-Lambda	
	1	£5.99	MCB - For independant isolation of individual circuits. Better segregation of circuits lead to minimum disruption in the event of a fault	
	11	£58.61	RCBO - RCBO for segregated additional protection	

	1	£27.08	100a Isolator - For opening and closing circuits under load. For disconnection of on-load electrical circuits already protected against overloads and short-circuits
AND	1	£458.33	4 Din Rail Automation Panel - Elegant panel hand crafted by Future Automation - Product Dimensions: 900mm (35.4") x 690mm (27.2") x 141.5mm (5.6")
TOTAL BESTS	1	£550.00	5 Din Rail Automation Panel - Elegant panel hand crafted by Future Automation - Product Dimensions: 1125mm (44.3") x 690mm (27.2") x 141.5mm (5.6")
	2	£100.00	Prefab Panel Cabling - Internal cable used in the building of your Loxone panel
	i	£215.42	3 Port Terminal For 3 Core + CPC Cable (50 PCS) - 3 Core & Earth Terminal, perfect for connecting blinds, curtain or garage door motors
	1	£115.10	Push In Terminal Block, Twin + CPC (50 PCS) - Twin & Earth Terminal for 230V circuits
	1	£220.71	Push In Terminal Block 8 X 4, Interconnected (20 PCS) - 8 Layer Interconnected Terminal Block, perfect for 24V distribution & 1-Wire
	2	£209.09	Push In Terminal Block 8 X 4, Seperated (20 PCS) - 8 Layer Terminal Block, perfect for connecting sensors
	1	£495.26	Audioserver - Flexible audio solution for any building, compact form factor with impressive performance and containing 4 amplifier outputs.
	1	£214.37	Modbus Extention - Easily expand your system to interact with other Modbus devices like HVAC alongside gas and electricity meters. Up to 32 Modbus devices can be controlled per Modbus extension. Up to 20 extensions can be connected to the Miniserver without affecting the performance of the system.
ĨÅ.	1	£0.00	All materials required for your smart system, this includes items for housing any kit, power supplies and any associated sundries

RACK EQUIPMENT: £3368.78

© 0 0 c	1	£479.06	Draytek Network Switch 24 Port POE (P2280X) - The VigorSwitch P2280x is a high performance L2+ managed Gigabit ethernet switch. With 24 PoE+ (Power over Ethernet) RJ-45 LAN ports and 4 10 Gigabit ethernet SFP+ ports for high bandwidth uplinks to servers, network attached storage and switches.
	1	£590.00	Sanus CFR Series Enclosed Rack 15U - 600 X 600 X 15U Rack for housing all Network & AV equipment
-III Z ZAROR B	1	£391.20	Draytek Router - DrayTek Routers provide business-grade features including VPN, firewall, content filtering, and bandwidth management, are an integrated network solution for home and business
	1	£198.61	Patch panel (Including Key Stone Jacks) - 24 Port pass through patch panel for Cat 6 connections. Ideal for effective network management with cable management bar and clear labelling.
	1	£102.00	Rack roof fans - Ideal for all floorstanding general purpose and server-style cabinets and enclosures, up to 1000mm in cabinet depth. Keeps all your networks and AV equipment cool
	2	£46.80	6 way PDU - Rack Power Distribution Unit with BS 1363 UK Sockets and UK Plug Input - comes with surge Protection inbuilt
	6	£6.00	1U Blank Plate - 1U blank plate. For use in all types of standard rack/server cabinets for aestethics

The second by the second second	3	£18.00	1U Brush Plate - 1U Brush Strip cable management panel. For use in all types of standard rack/server cabinets	
	1	£785.70	Dahua NVR - Video recorder connected to your network that records video footage from the IP cameras also connected to that network.	
	1	£638.62	Riello SDH 1500 VA UPS - The Sentinel Dual 1500 (Low Power) is an excellent choice of power backup system that is plug in and play that will allow full power protection against any problems. Sentinel Dual 1500 (Low Power) is rated for 1350 Watts of power and is easily capable of keeping your critical IT infrastructure safe during a power outage. If a power outage happens, you will have enough time to safely shut down any sensitive equipment to ensure no data is lost.	
TÅ	1	£0.00	All materials required for your network and/or and AV equipment.	

SPECIALIST LABOUR

DES	SCRIPTION	PRICE	LABOUR DESCRIPTION
	OPTIONAL 1 YEAR CLIENT CARE PACKAGE (GOLD)	£839.88	The maintenance cost proposal is largely based on response time and the degree of physical support available. Irrespective of the size/complexity of your project our prices are designed to fit all needs and budgets. Response times outside our care packages are typically 10 – 20 working days. See more here: https://jsjelec.com/jsj-client-care-package-signup
Tôl	INITIAL PROJECT DESIGN	£3,454.50	Project design is an early phase of the project where the project's key features are assessed to ensure integration with the rest of the property.
Tôl	PROJECT MANAGEMENT	£2,450.00	Communicate with all trades to achieve all project goals within the given constraints to facilitate the process and ensuring that primary constraints are scope, time, and budget.
TÅ	SITE VISITS (OVERSEEING INSTALLERS)	£1,500.00	Time required to ensure that things are progressing onsite as expected. $ \\$
Tôi	RACK - (PREFABRICATION OFF SITE)	£763.37	Your entire network will be prebuilt and configured in our workshop and go through our quality assurance process.
TÅ	RACK - INSTALLATION (ON SITE)	£763.37	Installation of your Data/AV rack onsite, this is where all the network based CAT cables will connect into.
Tôl	HA PANEL - PREFABRICATION (OFF SITE)	£980.00	Your entire Loxone automation panel which is the brain for your home will will be prebuilt and configured in our workshop within a controlled environment. All peripheral items will also be setup offsite to ensure time on site is minimised and hence controlled
TÅ	HA PANEL - INSTALLATION - (ON SITE)	£4,042.50	Installation of your Loxone panel onsite, essentially connecting the backbone infrastructure cabling of the house into your Loxone panel.
Tôl	PROGRAMING & COMISSIONING	£2,450.00	Planning, documenting, scheduling, adjusting and verifying to provide a facility that operates as a fully functional system per the Owner's Project Requirements.
Tôl	CLIENT TRAINING & OWNERS MANUAL	£490.00	The operation and maintenance (O&M) manual is a detailed document containing the instructions to manage and maintain the smart home/property. It details what each component that you have to interact with can/will do
Tôi	TESTING & COMMISSIONING	£500.00	Functional checks: ensuring that all systems and components of the building management systems (BMS) are designed, installed and tested according to the operational requirements of the owner or final client.

Total = 45162.79 Ex VAT

CCT NO.	TO LOCATION	DEVICE		
DIM-1	Kitchen	Dimmable circuit		
DIM-2	Living Room	Dimmable circuit		
DIM-3	Bedroom 1	Dimmable circuit		
DIM-4	Bedroom 2	Dimmable circuit		
DIM-5	Bedroom 3 Bedroom 4	Dimmable circuit		
DIM-6 DIM-7	Bedroom 5	Dimmable circuit Dimmable circuit		
DIM-8	Study	Dimmable circuit		
DIM-9	Library	Dimmable circuit		
DIM-10	Reception	Dimmable circuit		
DIM-11 SW-1	Cinema/Media Room Kitchen	Dimmable circuit Polos Lighting		
SW-2	Bedroom 1	Relay - Lighting Relay - Lighting		
SW-3	Bedroom 1	Relay - Lighting		
SW-4	Bathroom 1	Relay - Lighting		
SW-5	Bathroom 1	Relay - Lighting		
SW-6 SW-7	Bathroom 2 Bathroom 2	Relay - Lighting Relay - Lighting		
SW-8	Bathroom 3	Relay - Lighting		
SW-9	Bathroom 3	Relay - Lighting		
SW-10	Bathroom 4	Relay - Lighting		
SW-11 SW-12	Bathroom 4 Bathroom 5	Relay - Lighting		
SW-13	Bathroom 5	Relay - Lighting Relay - Lighting		
SW-14	Bathroom 6	Relay - Lighting		
SW-15	Bathroom 6	Relay - Lighting		
SW-16	Ground Floor	Relay - Lighting		
SW-17 SW-18	First Floor Second Floor	Relay - Lighting Relay - Lighting		
SW-18 SW-19	Dressing Room 1	Relay - Lighting Relay - Lighting		
SW-20	Utility	Relay - Lighting		
SW-21	Study	Relay - Lighting		
SW-22	Gym	Relay - Lighting		
SW-23 SW-24	Garage Garden	Relay - Lighting Relay - Lighting		
SW-24	Garden 2	Relay - Lighting		
SW-26	Annex	Relay - Lighting		
SW-27	Library	Relay - Lighting		
SW-28	Reception	Relay - Lighting		
SW-29 SW-30	Front Of House Front Door	Relay - Lighting Relay - Lighting		
SW-31	Cinema/Media Room	Relay - Lighting		
PB1-1	Kitchen	1 switch, 2 position		
PB1-2	Bathroom 1	1 switch, 2 position		
PB1-3	Bathroom 2 Bathroom 3	1 switch, 2 position		
PB1-4 PB1-5	Bathroom 4	1 switch, 2 position 1 switch, 2 position		
PB1-6	Bathroom 5	1 switch, 2 position		
PB1-7	Bathroom 6	1 switch, 2 position		
PB1-8	Utility	1 switch, 2 position		
PB1-9 PB1-10	Gym Garage	1 switch, 2 position 1 switch, 2 position		
PB1-11	Annex	1 switch, 2 position		
PB2-1	Ground Floor	2 switches, 2 position		
PB2-2	First Floor	2 switches, 2 position		
PB2-3	Second Floor	2 switches, 2 position		
PB2T1-1 PB2T1-2	Living Room Bedroom 1	2 switches, 2 & 3 position 2 switches, 2 & 3 position		
PB2T1-3	Bedroom 2	2 switches, 2 & 3 position		
PB2T1-4	Bedroom 3	2 switches, 2 & 3 position		
PB2T1-5	Bedroom 4	2 switches, 2 & 3 position		
PB2T1-6 PB2T1-7	Bedroom 5 Study	2 switches, 2 & 3 position 2 switches, 2 & 3 position		
PB2T1-7 PB2T1-8	Library	2 switches, 2 & 3 position		
PB2T1-9	Reception	2 switches, 2 & 3 position		
PB2T1-10	Cinema/Media Room	2 switches, 2 & 3 position		
TEMP-1	Kitchen	Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED) Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED)		
TEMP-2 TEMP-3	Living Room Bedroom 1	Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED) Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED)		
TEMP-4	Bedroom 2	Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED)		
TEMP-5	Bedroom 3	Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED)		
TEMP-6	Bedroom 4	Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED)		
TEMP-7 TEMP-8	Bedroom 5 Bathroom 1	Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED) Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED)		
TEMP-9	Bathroom 1	Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED) Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED)		
TEMP-10	Bathroom 3	Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED)		
TEMP-11	Bathroom 4	Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED)		
TEMP-12	Bathroom 5	Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED)		
TEMP-13 TEMP-14	Bathroom 6 Ground Floor	Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED) Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED)		
TEMP-15	First Floor	Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED)		
TEMP-16	Second Floor	Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED)		
TEMP-17	Utility	Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED)		
TEMP-18 TEMP-19	Study Gym	Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED) Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED)		
TEMP-20	Annex	Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED)		
TEMP-21	Library	Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED)		
TEMP-22	Reception	Temperature Zone 1-WIRE BUS (SCREENED/SHIELDED)		

ACTR-1	Kitchen	AC Interface (Intesis Box) - Air Conditioning
ACTR-2	Bedroom 5	AC Interface (Intesis Box) - Air Conditioning
ACTR-3	Gym	AC Interface (Intesis Box) - Air Conditioning
ACTR-4	Reception	AC Interface (Intesis Box) - Air Conditioning
ACTR-5	Cinema/Media Room	AC Interface (Intesis Box) - Air Conditioning
RAD-1	Bedroom 1	Relay - Radiator - Radiator - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
RAD-2	Bedroom 2	Relay - Radiator - Radiator - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
RAD-3	Bedroom 3	Relay - Radiator - Radiator - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
RAD-4	Bedroom 4	Relay - Radiator - Radiator - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
RAD-5	Bedroom 5	Relay - Radiator - Radiator - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
RAD-6	Annex	Relay - Radiator - Radiator - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
UFH-1	Kitchen	Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
UFH-2	Living Room	Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
UFH-3	Bathroom 1	Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
UFH-4	Bathroom 2	Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
UFH-5	Bathroom 3	Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
UFH-6	Bathroom 4	Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
UFH-7	Bathroom 5	Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Mahihold) Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Mahihold)
UFH-8	Bathroom 6	Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Mailifold) Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Mailifold)
UFH-9	Ground Floor	
		Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
UFH-10	First Floor	Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
UFH-11	Second Floor	Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
UFH-12	Utility	Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
UFH-13	Study	Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
UFH-14	Gym	Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
UFH-15	Library	Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
UFH-16	Reception	Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
UFH-17	Cinema/Media Room	Relay - Wet UFH Heating - See JSJ heating control drawings (Assume X1 5 Core Flex Per 4 Zones Per Manifold)
TR-1	Bathroom 1	Relay - Towel Rail
TR-2	Bathroom 2	Relay - Towel Rail
TR-3	Bathroom 3	Relay - Towel Rail
TR-4	Bathroom 4	Relay - Towel Rail
TR-5	Bathroom 5	Relay - Towel Rail
TR-6	Bathroom 6	Relay - Towel Rail
FAN-1	Bathroom 1	Relay - Extractor fan control - Ventilation
FAN-2	Bathroom 2	Relay - Extractor fan control - Ventilation
FAN-3	Bathroom 3	Relay - Extractor fan control - Ventilation
FAN-4	Bathroom 4	Relay - Extractor fan control - Ventilation
FAN-5	Bathroom 5	Relay - Extractor fan control - Ventilation
FAN-6	Bathroom 6	Relay - Extractor fan control - Ventilation
FAN-7	Utility	Relay - Extractor fan control - Ventilation
BLR-1	All Manifolds	Boiler Wiring Centre - Heat Enable - Link in between all Manifolds. Permenant & Boiler/Heatpump SL
BLR-CTRLS-1	Boiler Wiring Centre	Boiler Wiring Centre - Zone Valves & Power to Panel - Hotwater Valve, Dining CH Valve (Wiring Center) + Feed to Loxone
DM/D 1	-	
PWR-1	All Manifolds & Wiring Centre	Power Supply Heating/Manifolds - Radial to all manifolds & wiring centre
DC-1	-	
	Kitchen	Door Contacts Hidden
DC-1	-	Door Contacts Hidden Door Contacts Hidden
DC-1 DC-2	Kitchen Living Room	Door Contacts Hidden Door Contacts Hidden Door Contacts Hidden
DC-1 DC-2 DC-3 DC-4	Kitchen Living Room Bedroom 1 Bedroom 2	Door Contacts Hidden Door Contacts Hidden Door Contacts Hidden Door Contacts Hidden
DC-1 DC-2 DC-3 DC-4 DC-5	Kitchen Living Room Bedroom 1 Bedroom 2 Bedroom 3	Door Contacts Hidden
DC-1 DC-2 DC-3 DC-4 DC-5 DC-6	Kitchen Living Room Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4	Door Contacts Hidden
DC-1 DC-2 DC-3 DC-4 DC-5 DC-6 DC-7	Kitchen Living Room Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Bedroom 5	Door Contacts Hidden
DC-1 DC-2 DC-3 DC-4 DC-5 DC-6 DC-7 DC-8	Kitchen Living Room Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Bedroom 5 Study	Door Contacts Hidden
DC-1 DC-2 DC-3 DC-4 DC-5 DC-6 DC-7 DC-8 DC-9	Kitchen Living Room Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Bedroom 5 Study Garage	Door Contacts Hidden
DC-1 DC-2 DC-3 DC-4 DC-5 DC-6 DC-7 DC-8 DC-9 DC-9 DC-10	Kitchen Living Room Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Bedroom 5 Study Garage Annex	Door Contacts Hidden
DC-1 DC-2 DC-3 DC-4 DC-5 DC-6 DC-7 DC-8 DC-9 DC-10 DC-11	Kitchen Living Room Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Bedroom 5 Study Garage Annex Reception	Door Contacts Hidden
DC-1 DC-2 DC-3 DC-4 DC-5 DC-6 DC-7 DC-8 DC-9 DC-10 DC-11 DC-12	Kitchen Living Room Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Bedroom 5 Study Garage Annex Reception Reception	Door Contacts Hidden
DC-1 DC-2 DC-3 DC-4 DC-5 DC-6 DC-7 DC-8 DC-9 DC-10 DC-11 DC-12 DC-13	Kitchen Living Room Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Bedroom 5 Study Garage Annex Reception Reception Front Door	Door Contacts Hidden
DC-1 DC-2 DC-3 DC-4 DC-5 DC-6 DC-7 DC-8 DC-9 DC-10 DC-11 DC-12 DC-13 CCTV-1	Kitchen Living Room Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Bedroom 5 Study Garage Annex Reception Front Door Garage	Door Contacts Hidden
DC-1 DC-2 DC-3 DC-4 DC-5 DC-6 DC-7 DC-8 DC-9 DC-10 DC-11 DC-12 DC-13 CCTV-1 CCTV-2	Kitchen Living Room Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Bedroom 5 Study Garage Annex Reception Reception Front Door Garage Garden	Door Contacts Hidden
DC-1 DC-2 DC-3 DC-4 DC-5 DC-6 DC-7 DC-8 DC-9 DC-10 DC-11 DC-12 DC-13 CCTV-1 CCTV-2 CCTV-2	Kitchen Living Room Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Bedroom 5 Study Garage Annex Reception Reception Front Door Garage Garden Garden	Door Contacts Hidden
DC-1 DC-2 DC-3 DC-4 DC-5 DC-6 DC-7 DC-8 DC-9 DC-10 DC-11 DC-12 DC-13 CCTV-1 CCTV-2 CCTV-3 CCTV-4	Kitchen Living Room Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Bedroom 5 Study Garage Annex Reception Reception Front Door Garage Garden Garden Garden Garden 2	Door Contacts Hidden
DC-1 DC-2 DC-3 DC-4 DC-5 DC-6 DC-7 DC-8 DC-9 DC-10 DC-11 DC-12 DC-13 CCTV-1 CCTV-2 CCTV-3 CCTV-4 CCTV-5	Kitchen Living Room Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Bedroom 5 Study Garage Annex Reception Reception Front Door Garage Garden Garden Garden Garden 2 Garden 2	Door Contacts Hidden Door Cont
DC-1 DC-2 DC-3 DC-4 DC-5 DC-6 DC-7 DC-8 DC-9 DC-10 DC-11 DC-12 DC-13 CCTV-1 CCTV-2 CCTV-3 CCTV-4 CCTV-5 CCTV-1	Kitchen Living Room Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Bedroom 5 Study Garage Annex Reception Reception Front Door Garage Garden Garden Garden Garden 2 Garden 2 Garden 1 Garden 1 Garden 2 Garden 1 Garden 1 Garden 2 Garden 1	Door Contacts Hidden Door Cont
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DC-1 DC-2 DC-3 DC-3 DC-6 DC-6 DC-7 DC-8 DC-9 DC-10 DC-11 DC-12 DC-13 CCTV-1 CCTV-2 CCTV-3 CCTV-4 CCTV-5 CCTV-1 CCTV-2 CCTV-1 CCTV-2 CCTV-3 CCTV-1 CCTV-2 CCTV-1 CCTV-2 CCTV-1 CCTV-1 CCTV-2 CCTV-1 CCTV-1 CCTV-1 CCTV-1 CCTV-1 CCTV-1 CCTV-2 CCTV-1 CCTV-1 CCTV-1 CCTV-1 CCTV-2 CCTV-1 CCTV-1 CCTV-2 CCTV-1 CCTV-1 CCTV-2 CCTV-1 CCTV-2 CCTV-1 CCTV-2 CCTV-1 DR-1	Kitchen Living Room Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Bedroom 5 Study Garage Annex Reception Reception Front Door Garage Garden Garden Garden Garden 2 Garden 2 Ground Floor First Floor Second Floor Front Of House Front Door	Door Contacts Hidden Door Cont
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DC-1 DC-2 DC-3 DC-3 DC-6 DC-6 DC-7 DC-8 DC-9 DC-10 DC-11 DC-12 DC-13 CCTV-1 CCTV-2 CCTV-3 CCTV-4 CCTV-5 CCTV-1 CCTV-2 CCTV-3 DR-1 BR-1 GATE-1 GATE-1 GATE-1 SHUT-1 LSD-INT-1 LMD-ANTH-INT-1 MS-F-2 MS-F-3 MS-F-3 MS-F-4	Kitchen Living Room Bedroom 1 Bedroom 2 Bedroom 2 Bedroom 3 Bedroom 4 Bedroom 5 Study Garage Annex Reception Reception Front Door Garage Garden Garden Garden 2 Garden 2 Ground Floor Front Of House Front Of House Front Of House Front Of House Kitchen Living Room Ground Floor First Floor Front Of House Kitchen Living Room Ground Floor Front Of House Front Of House Kitchen Living Room Ground Floor First Floor Front Of House Kitchen Living Room Ground Floor First Floor	Door Contacts Hidden Door Contact Reternal CCTV Dahua CCTV Camera - External CCTV Dahua CCTV Camera - Internal CCTV RECOTO Camera - Internal CCTV Dahua CCTV Camera - Internal CCTV Dahua CCTV Camera - Internal CCTV Relay - Door Release Relay - Door Release Relay - Shutters Dry Contact Rel
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DC-1 DC-2 DC-3 DC-4 DC-5 DC-6 DC-7 DC-8 DC-9 DC-10 DC-11 DC-12 DC-13 CCTV-1 CCTV-2 CCTV-3 CCTV-4 CCTV-5 CCTV-1 LSD-1N-1 LSD-1N-1 LMD-ANTH-INT-1 MS-F-2 MS-F-3 MS-F-6 MS-F-7 MS-F-8 MS-F-7 MS-F-8 MS-F-7 MS-F-8 MS-F-9 AP-1 AP-2 AP-3	Kitchen Living Room Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Bedroom 5 Study Garage Annex Reception Reception Front Door Garage Garden Garden 2 Garden 2 Garden 2 Garden 1 Ground Floor Front Of House Front Door Front Of House Front Door Front Of House Front Door Front Of House Kitchen Living Room Ground Floor First Floor Second Floor Frest Floor Second Floor Frost Of House Kitchen Living Room Ground Floor First Floor Frest Floor Fresting Room 1 Utility Study Garage Kitchen Ground Floor First Floor	Door Contacts Hidden Door Contact Hidden Door Con
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DC-1 DC-2 DC-3 DC-3 DC-6 DC-6 DC-7 DC-8 DC-9 DC-10 DC-11 DC-12 DC-13 CCTV-1 CCTV-2 CCTV-3 CCTV-4 CCTV-5 CCTV-1 CCTV-2 CCTV-1 LSD-INT-1 LSD-INT-1 LMD-ANTH-INT-1 MS-F-2 MS-F-3 MS-F-6 MS-F-7 MS-F-8 MS-F-7 MS-F-8 MS-F-7 MS-F-8 MS-F-9 AP-1 AP-2 AP-3 AP-4	Kitchen Living Room Bedroom 1 Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Bedroom 5 Study Garage Annex Reception Reception Reception Garage Garden Garden Garden 2 Garden 2 Ground Floor Front Of House Front Of House Front Of House Front Of House Kitchen Living Room Ground Floor First Floor Second Floor Front Of House Kitchen Living Room Ground Floor First Floor Second Floor First Floor Second Floor Front Of House Kitchen Living Room Ground Floor First Floor Second Floor First Floor Geond Floor First Floor Geond Floor First Floor Front Of House Front Of House Kitchen Ground Floor First Floor First Floor Second Floor First Floor	Door Contacts Hidden Door Contact Namera - External CCTV Dahua CCTV Camera - External CCTV Dahua CCTV Camera - Internal CCTV Dahua

SP2-VP60R-3	Living Room	Sonanace Mono Speaker (VP60R)
SP2-VP60R-4	Living Room	Sonanace Mono Speaker (VP60R)
SP2-VP60R-5	Bedroom 1	Sonanace Mono Speaker (VP60R)
SP2-VP60R-6	Bedroom 1	Sonanace Mono Speaker (VP60R)
SP2-VP60R-7	Bedroom 5	Sonanace Mono Speaker (VP60R)
SP2-VP60R-8	Bedroom 5	Sonanace Mono Speaker (VP60R)
SP2-VP60R-9	Bathroom 1	Sonanace Mono Speaker (VP60R)
SP2-VP60R-10	Gym	Sonanace Mono Speaker (VP60R)
SP2-VP60R-11	Gym	Sonanace Mono Speaker (VP60R)
SP2-VP60R-12	Reception	Sonanace Mono Speaker (VP60R)
SP2-VP60R-13	Reception	Sonanace Mono Speaker (VP60R)
STE-ION-1	Kitchen	Stereo Extension
STE-ION-2	Living Room	Stereo Extension
STE-ION-3	Bedroom 1	Stereo Extension
STE-ION-4	Bedroom 5	Stereo Extension
STE-ION-5	Bathroom 1	Stereo Extension
STE-ION-6	Gym	Stereo Extension
STE-ION-7	Reception	Stereo Extension
SON-SET-1	Cinema/Media Room	Sonos Surround Set (CAT 6 TO SOUNDBAR & SUBWOOFER)
BLD-1	Living Room	Relay - 230V Blinds - Blinds/Curtians
BLD-2	Bedroom 1	Relay - 230V Blinds - Blinds/Curtians
BLD-3	Study	Relay - 230V Blinds - Blinds/Curtians
BLD-4	Library	Relay - 230V Blinds - Blinds/Curtians
BLD-5	Reception	Relay - 230V Blinds - Blinds/Curtians
VELUX-1	Bedroom 4	Velux KLF 200 interface
VELUX-2	Bedroom 5	Velux KLF 200 interface