

YEAR	PROJECT	SCOPE	SPECIFICS
2001	<b>Print house Iztok, Varna</b>	Engineering	Bus integration of 15 close control units; Bus integration of fire alarm system 1100 Data Points
2002	<b>Medica Sandanski</b>	Engineering	System qualification in compliance with GMP standards. 254 Data Points
2002	<b>Sopharma Ampoules facility</b>	Engineering	System qualification in compliance with GMP standards. 550 Data Points
1999 - 2005	<b>Business Park Sofia, Multifunctional buildings B2, B3, B4, B12, Ina Trading</b>	Engineering	Communication system among buildings. 450 Data Points
1999 - 2005	<b>Business Park Sofia, Multifunctional buildings B2A, B10, B11, B13 and B1</b>	Design, delivery, installation, commissioning, software programming and start-up	Communication system among buildings. 480 Data Points
2003	<b>Radisson SAS Grand Hotel Sofia</b>	Re-engineering and realization of new installations	200 Data Points
2004	<b>HIT Mladost</b>	Engineering	253 Data Points
2004	<b>Private house</b>	Re-engineering	EIB home automation. HVAC automation, individual room control, lighting and shutters control
2005	<b>Print house Zapad, Sofia</b>	Delivery, installation, commissioning, software programming and start-up	First WEB based BMS in Bulgaria 50 Data Points
2005	<b>Unionbank, head office</b>	Delivery, installation, commissioning, software programming and start-up	WEB BMS 190 Data Points
2005	<b>Trade center Corecom – Princess</b>	Delivery, installation, commissioning, software programming and start-up	350 Data Points
2005	<b>City Center Sofia</b>	Design, delivery, installation, commissioning, software programming and start-up	Fully automated mall, Central management of Individual Room Control for every shop. 1200 Data Points
2005	<b>Neobalkanika</b>	Design, delivery, installation, commissioning, software programming and start-up	System qualification in compliance with GMP standards. 250 Data Points
2005	<b>HIT Lulin</b>	Engineering	286 Data Points
2005	<b>National Library “St. St. Cyril and Methodius”</b>	Design, delivery, installation, commissioning, software programming and start-up	HVAC automation. WEB BMS 40 Data Points
2005	<b>Drujba Glass manufacturing plant, Plovdiv</b>	Design, delivery, installation, commissioning, software programming and start-up	Automation of cooling towers 40 Data Points
2005	<b>Helios Bay Hotel</b>	Design, delivery, installation, commissioning, software programming and start-up	First WEB based SOS hotel system in Bulgaria. 283 Data Points
2005	<b>Sky Hotel</b>	Design, delivery, installation, commissioning, software programming and start-up	WEB based SOS hotel system. 90 Data Points
2005	<b>CISCO Bulgaria</b>	Design, delivery, installation, commissioning, software programming and start-up	HVAC automation and individual room control. Implementation of LON WORKS network. 70 Data Points
2005	<b>First Investment Bank</b>	Engineering	Toshiba VRF & HVAC units electrical energy measurement and reporting.

<b>2006</b>	<b>Tokuda Hospital</b>	Design, delivery, installation, commissioning, software programming and start-up	Schrack Seconet Nurse call system. First implementation in Bulgaria. 1000 beds.
<b>2006</b>	<b>Tokuda Hospital</b>	Design, delivery, installation, commissioning, software programming and start-up. Setting and start-up of dynamic graphics on the operator station for lighting management.	KNX Lighting management system. Merging of the first and second stages of the system into one operator station.
<b>2006</b>	<b>Bulgarian Telecommunication Company (BTC)</b>	Design, delivery, installation, commissioning, software programming and start-up	Climate control and monitoring system, diesel generators, UPS, batteries, water presence, electrical consumers status, measurement of electrical power supply parameters; First implementation in Bulgaria of centralized system covering the whole territory of the country with access to every site through a WEB interface 43 sites, 5000 Data Points
<b>2007</b>	<b>Bulgarian Telecommunication Company (BTC)</b>	Design, delivery, installation, commissioning, software programming and start-up	Climate control and monitoring system, diesel generators, UPS, STS, batteries, water and rodent presence, circuit breakers status, measurement of the electrical power supply parameters; First implementation of a real time 2n data center in Bulgaria and integration to an existing operator's level
<b>2007</b>	<b>Lozenetz Hospital</b>	Design, delivery, installation, commissioning, software programming and start-up	HVAC automation
<b>2007</b>	<b>Milk processing plant, Sevlievo</b>	Design, delivery, installation, commissioning, software programming and start-up	Carrier multi-chiller control plant; First implementation in Bulgaria;
<b>2007</b>	<b>Metropolitan Hotel</b>	Design, delivery, installation, commissioning, software programming and start-up	Building management system with individual room control and integration with hotel software Fidelio; First implementation in Bulgaria; 600 Data Points + 250 IRC
<b>2007</b>	<b>Sopharma Ampoules facility</b>	Design, delivery, installation, commissioning, software programming and start-up	System qualification in compliance with GMP standards. 800 Data Points
<b>2007</b>	<b>Baumax Trade Center, Plovdiv</b>	Design, delivery, installation, commissioning, software programming and start-up	LON Integration of GEA air treatment units. 200 Data Points
<b>2007</b>	<b>Billa hypermarket, Kurdjali</b>	Delivery, installation, commissioning, software programming and start-up	Building Management System. 100 Data Points
<b>2007</b>	<b>Hyundai office building, showroom, car service and parking</b>	Delivery, installation, commissioning, software programming and start-up	Building Management System. 800 Data Points
<b>2007</b>	<b>Schneider Electric Plant, Plovdiv</b>	Design, delivery, installation, commissioning, software programming and start-up	Lighting automation; Integration of I/NET access control system, compressors and lifts; Monitoring of Modbus communicating electrical meters; 370 Data Points
<b>2008</b>	<b>Alpha Business Center</b>	Design, delivery, installation, commissioning, software programming and start-up	Building Management System. 800 Data Points
<b>2008</b>	<b>Business Park Sofia Building 14</b>	Design, delivery, installation, commissioning, software programming and start-up	Integration of M-bus communicative heat-cold meters into BMS; Chillers Integration into BMS via Modbus communication; 180 Data Points
<b>2008</b>	<b>Hyundai office building</b>	Design, delivery, installation, commissioning, software programming and start-up	100 zones IRC; Integration of 130 LON communicative heat-cold meters into BMS; Integration of 40 water meters with a pulse output; The first building in Bulgaria with BREEAM certificate. 700 Data Points

<b>2008</b>	<b>Mall Plovdiv</b>	Design, delivery, installation, commissioning, software programming and start-up	3 BMS operation stations; OPC integration of fire detection system, intrusion system and power automation system; Integration of I/NET access control system; Integration of public address system, pipe heating system, drainage pumps; 4500 Data Points
<b>2009</b>	<b>Dimyat Hotel, Varna</b>	Design, delivery, installation, commissioning, software programming and start-up	Integration of 90 M-bus communicative heat-, cold- and water meters into BMS 530 Data Points
<b>2009</b>	<b>Infinity showroom and office building</b>	Design, delivery, installation, commissioning, software programming and start-up	Remote Management 300 Data Points
<b>2009</b>	<b>Shops PLUS in Pernik, Lukovit and Silistra</b>	Design, delivery, installation, commissioning, software programming and start-up	Building Management System
<b>2010</b>	<b>Mall Galleria Stara Zagora</b>	Design, delivery, installation, commissioning, software programming and start-up	LON integration of Roof-Top and chillers; Modbus integration of electrical meters; 1600 Data Points
<b>2010</b>	<b>Mall Rousse</b>	Design, delivery, installation, commissioning, software programming and start-up	IP communicative automation stations; LON integration of chillers; Modbus integration of electrical meters; 2170 Data Points
<b>2010</b>	<b>Unipharm AD</b>	Design, delivery, installation, commissioning, software programming and start-up	System qualification in compliance with GMP standards. 320 Data Points
<b>2010</b>	<b>THE MALL Carrefour Hypermarket</b>	Design, delivery, installation, commissioning, software programming and start-up	Modbus integration of 4 Roof-Top Units Control of substation heating center Monitoring of smoke fans, diesel generator and chillers Modbus integration of 24 electrical meters 450 Data Points.
<b>2011</b>	<b>Astral Business Center</b>	Design, delivery, installation, commissioning, software programming and start-up	3 AHU's- central control; 42 zones/ individual room control (IRC); Integration of 62 M-bus communicative cold/heat meters; Integration of 84 electrical meters Modbus communication; 27 heat recovery units - central control; Integration of 13 other subsystems 1100 Data Points.
<b>2011</b>	<b>Sports Hall Sofia Arena Armeetz</b>	Design, delivery, installation, commissioning, software programming and start-up	6 AHU's - serving sport hall; 1 AHU - serving training hall; Air conditioning of public area, offices, VIP zone; 5 heat pump units; Smoke ventilation of underground parking; Exhaust ventilation for hall, changing rooms, toilets, technical rooms; Control and monitoring of fire dampers, lighting, sports lighting and façade lighting; 2 operation stations DESIGO INSIGHT; Integration of 13 other subsystems 1500 Data Points.
<b>2011</b>	<b>Alfa Bank Headquarters building</b>	Design, delivery, installation, commissioning, software programming and start-up	4 AHU'S- central control; Jbus integration of 4 chillers; ModBus integration of 6 multimeters; ModBus integration of 3 diesel generators; Integration of 12 existing sub-systems; 700 Data Points.
<b>2011</b>	<b>Procredit Bank</b>	BMS re-engineering; Design, delivery, installation, commissioning, software programming and start-up	Controllers' LON network recommissioning via LonMaker Control of AHU's, lighting, chillers Individual room control (IRC) of all rooms in the building Monitoring of electrical meter
<b>2011</b>	<b>IME Plant, Botevgrad</b>	Design, delivery, installation, commissioning, software programming and start-up	1 AHU - central control, Cooling center with 1 chiller 80 Data Points.

2012	<b>Mall Galleria Burgas</b>	Design, delivery, installation, commissioning, software programming and start-up	Control and monitoring of Cooling towers, circulation pumps, exhaust and smoke fans, fire and smoke dampers, lighting automation, UPS, CCTV, lifts and escalators, heating pipe system, sprinkler installation, drainage pumps, water meters, circuit breakers; LON integration of Roof-Top Units, Viessmann boilers, air curtains; M-bus integration of heat- cold meters; Modbus integration of WSHPs' of 230 shops, electrical meters, Diesel Generators, hydrophore system  2400 Data Points.
2012	<b>Mall Galleria Burgas Cinema City</b>	Design, delivery, installation, commissioning, software programming and start-up	12 AHU's- central control; LON integration of 2 chillers Trane;  Control of exhaust fans; Monitoring of smoke fans, fire and smoke dampers;  600 Data Points
2012	<b>Mall Galleria Burgas Carrefour Hypermarket</b>	Design, delivery, installation, commissioning, software programming and start-up	2 AHU's- central control; LON integration of 2 chillers; Control of exhaust fans; Monitoring of smoke fans, fire and smoke dampers  300 Data Points
2012	<b>Mall Bulgaria</b>	Design, delivery, installation, commissioning, software programming and start-up	Heat-cooling center Mall; Heat-cooling center Carrefour Hypermarket  LON integration of 21 Roof-Top Units, Cooling towers; 3 AHU's - central control for Carrefour hypermarket; Control and monitoring of parking ventilation, smoke evacuation fans and over-pressure fans; air curtains, water-treatment system, lighting automation, oil reservoir, pipe heating system; 170 shops WSHPs Modbus integration; Modbus integration of power meters, electrical meters, gas meters; OPC integration of access control system, fire protection system, intrusion system; Sewage pumps, sprinkler monitoring, water supply system;  4200 Data Points
2012	<b>Risk Engineering office building</b>	BMS re-engineering;	Fire alarm system integration - 1000 Data Points  Heat-cooling center, LON integration of individual room control (IRC)  9 AHU's - central control, Control and monitoring of parking ventilation and CO gas signalling system - 2 levels, lighting automation, decorative water wall, garage doors; M-bus integration of heat- cold meters; Outside blinds Modbus integration.  2200 Data Points
2012	<b>Sofia Airport Center</b>	Design, delivery, installation, commissioning, software programming and start-up	Heat-cooling center; central control of 12 AHU's for office areas; 3 AHU's for Greenhouse; Control and monitoring of parking ventilation and CO gas signaling system - 2 levels; lighting automation, fountains; Modbus integration of chillers, power meters, cold meters; Monitoring of irrigation system;  2200 Data Points
2012	<b>Schneider Electric Plant, Plovdiv</b>	Design, delivery, installation, commissioning, software programming and start-up	TAC Vista BACS station; 5 AHU's; Heat-cooling center; Monitoring lifts & electrical distribution; Lighting automation.  300 Data Points
2012	<b>Zagorka AD, Stara Zagora</b>	Design, delivery, installation, commissioning, software programming and start-up	Heat-cooling center; Control of air curtain - air conditioning in storage; 2 AHU's office building; LON integration of individual room control (IRC); Monitoring of smoke hatches, smoke dampers and fans; Storage door monitoring; Monitoring and control of fans, diesel generator, drainage and rainwater pumps; The building was issued BREEAM certificate.  300 Data Points
2012	<b>City Clinic Sofia</b>	Design, delivery, installation, commissioning, software programming and start-up	Heat-cooling center; KNX - individual room control (IRC)  7 AHU's - central control for surgery, emergency, reanimation wards and office areas.  Control and monitoring of ventilation, lighting automation, medical gas system, CCTV, access control system, fire dampers, intrusion system, power supply system;  Visocall IP - IP-based Nurse Call System;  1000 Data Points

2013	Paradise Center – Cinema City	Design, delivery, installation, commissioning, software programming and start-up	16 Air Handling Units – central control; LON integration of 2 chillers  Control of exhaust fans; Monitoring of smoke fans, fire and smoke dampers; First project in Bulgaria with Automation Servers, part of SmartStruxure™ Architecture range  800 Data Points
2013	Mall Bulgaria – Infinity Tower	Design, delivery, installation, commissioning, software programming and start-up	Heat-cooling center  4 AHU's – central control  Control and monitoring of smoke fans, overpressure fans and dampers, lighting automation; water meters, sprinkler system, fire pumps monitoring, drinking water supply pump groups monitoring, security systems monitoring - fire alarm systems, public address system, video monitoring (CCTV), intruder alarm system; transformers monitoring; Diesel generator monitoring  Modbus integration of 6 chillers, electrical meters, power meters, dry coolers integration, fan coil units - public area;  Mbus integration of heat and cold meters;  1100 Data Points
2013	CENTILLION Ltd. Manufacturing and office building	Design, delivery, installation, commissioning, software programming and start-up	Heat-cooling center; LON integration of Heat pump water/air, Modbus integration of Heat pump water/water and connection to geothermal installation, Mbus integration of heat and cold meters;  8 AHU's – central control, LON integration of 140 Fan Filter Units (FFUs) for Clean rooms; Modbus integration of 3 injection pumps to geothermal heat pump installation, Modbus integration of 8 flow meters, power meters, electrical meters; Lighting automation.  2300 Data Points
2014	St. Petka Eye Hospital, Varna	Design, delivery, installation, commissioning, software programming and start-up	2 AHU's - operation theaters; 2 AHU's – fresh air to supply public area; Cooling and heating center with 2 chillers and 1 boiler; Control and monitoring of overpressure ventilation and smoke exhaust ventilation for garage; Control and monitoring of local extract ventilation for toilets and technical rooms; Lighting automation; Individual Room Control LON integration; ModBus integration of medical gases system; Reading of impulse water and gas meters; Monitoring of circuit breakers in low voltage panels and main distribution panels; Integration of – Fire, WSS, electrical and low voltage systems; Integration of window Tip Tronik System of Schuko  Integration of Sun light protection facades of Schuko  1300 Physical Data Points  600 Integration Data Points
2014	South Ring Mall, Sofia	Design, delivery, installation, commissioning, software programming and start-up	11 AHU's – fresh air for tenants; 20 AHU's – for air conditioning of public area; Control and monitoring of cooling and heating center with 3 water to water heat pumps and 3 boilers; Control and monitoring of overpressure ventilation and smoke exhaust ventilation for public area and shops; Monitoring of gas detection system (CO) and control of smoke exhaust ventilation for garage; Control and monitoring of local extract ventilation for restaurants, toilets and technical rooms; Monitoring of gas detection system (freon) and control of exhaust ventilation for chiller plant room; Lighting automation; ModBus integration of energy meters, multimeters and chillers; Mbus integration of heat and cold meters; Reading of impulse water and gas meters; Monitoring of circuit breakers in low voltage panels and main distribution panels; Monitoring of diesel generators, lifts and escalators; Monitoring of drain, drill, sewage, sprinkler and hydrant pump; Monitoring of waste water treatment plant  4500 Physical Data Points  2500 Integration Data Points
2015	Sports Hall, Rousse	Design, delivery, installation, commissioning, software programming and start-up	35 AHU's – public area, control of cooling center with 2 chillers, heating center, control and monitoring of overpressure ventilation, lighting automation, monitoring of circuit breaker  1300 Data Points

2015	<b>G&amp;E Pharmaceuticals, Botevgrad</b>	Design, delivery, installation, commissioning, software programming and start-up	3AHU's – to supply fresh air public area, control of cooling center with 3 chillers, heating center with 2 boilers, lighting automation  Qualification of BMS system according GMP requirement.  350 Physical Data Points
2015	<b>Kaufland Store, Burgas</b>	Delivery, installation, commissioning, software programming and start-up	1 AHU – Sales hall, Cooling and heating center, the energy source being store's refrigeration technics; Control and monitoring of local extract fans for toilets, technical & staff rooms, etc.; Lighting automation, incl. outside light intensity based lighting control; LON integration – Heat/cold meters; Mbus integration of electricity meters; Integration of – Refrigeration technics, Fire, WSS, Diesel generator, Deep freezing cameras monitoring, Security system, etc.;  Local system control via Touch panel, integrated into the DDC panel;  Remote two-point monitoring/control of core system parameters via LED panels; Full remote system control/monitoring via WEB server;  230 Physical Data Points  5 Integration Data Points
2015	<b>Kaufland Store, Asenovgrad</b>	Delivery, installation, commissioning, software programming and start-up	1 AHU – Sales hall; Cooling and heating center, the energy source being store's refrigeration technics; Control and monitoring of local extract fans for toilets, technical & staff rooms, etc.; Lighting automation, incl. outside light intensity based lighting control; LON integration – Heat/cold meters; Modbus integration of electricity meters; Integration of – Refrigeration technics, Fire, WSS, Diesel generator, Deep freezing cameras monitoring, Security system, etc.  Local system control via Touch panel, integrated into the DDC panel.  Remote two-point monitoring/control of core system parameters via LED panels; Full remote system control/monitoring via WEB server;  230 Physical Data Points  5 Integration Data Points
2015	<b>City Clinic Cancer Center, Sofia</b>	Design, delivery, installation, commissioning, software programming and start-up	11 AHU's; 3 Cooling centers: for general purposes, for technological equipment and for Robot tech. equipment; 1 Heating center; Control and monitoring of local extract fans for toilets, technical & staff rooms, etc.; Lighting automation, incl. outside light intensity based lighting control; LON integration – Draeger medical gasses system; ModBus integration of room temperature thermostats and VRV's; Modbus integration of electrical power meters and diesel generators; Integration of – Fire, WSS, Drainage pumps, Security system, Elevators, Circuit breakers, pipe heating systems, etc.;  Introduction into Bulgarian market of the Siemens most modern Building Management Software – Desigo CC. First project in Bulgaria based on this system.  1100 Physical Data Points  2300 Integration Data Points
2015	<b>Expo 2000, Phase 3, Sofia</b>	Delivery, installation, commissioning, software programming and start-up	2 AHU's; Cooling and Heating center; Control and monitoring of local extract fans for toilets, technical & staff rooms, etc.; KNX integration of room thermostats, 700 data points; ModBus integration of circulation pumps and fans VSDs; Modbus integration of Heat pump and Chiller; Mbus integration of 32 Heat meters, 32 Cold meters and 32 Water meters; Lighting automation; Desigo Insight building management station  950 Physical Data Points  1150 Integration Data Points

2016	<b>Kaufland Store Bedechka, Stara Zagora</b>	Delivery, installation, commissioning, software programming and start-up	1 AHU – Sales hall; Cooling and heating center, the energy source being store's refrigeration technics; Control and monitoring of local extract fans for toilets, technical & staff rooms, etc.; Lighting automation, incl. outside light intensity based lighting control; LON integration – Heat/cold meters; ModBus integration of electricity meters; Mbus integration of electricity and water meters; Integration of – Refrigeration technics, Fire, WSS, Diesel generator, Deep freezing cameras monitoring, Security system, etc.; Local system control via Touch panel, integrated into the DDC panel; Remote two-point monitoring/control of core system parameters via LED panels; Full remote system control/monitoring via WEB server;
			230 Physical Data Points
			30 Integration Data Points
2016	<b>Tirana Business Park, Albania</b>	Design, delivery, installation, commissioning, software programming and start-up	2 AHU's – fresh air for offices; Monitoring of cooling center with 2 chillers; Control and monitoring of load management system; Monitoring of elevators; ModBus integration of energy meters and multimeters; ModBus integration of middle voltage sepam relays; ModBus integration of temperature relays of the transformers; ModBus integration of diesel generators; Mbus integration of water and cold meters; LON integration of chillers; Monitoring of fire fighting, sewage and booster drinking pumps; Monitoring of waste water treatment plant;
			50 Physical Data Points
			500 Integration Data Points
2016	<b>Unipharm, Sofia</b>	Design, delivery, installation, commissioning, software programming and start-up	11 AHU's – for air conditioning of tablet departments and microbiology; Control and monitoring of heating center; Control and monitoring of cooling center with 2 chillers; Control and monitoring of heating center with hot steam – produce heating to machines; Control and monitoring of local extract ventilation for toilets and technical rooms; Control and monitoring of microclimate in clean rooms; Control and monitoring of pressure in clean rooms
			Qualification of BMS system according GMP requirement
			600 Physical Data Points
2016	<b>W Amsterdam hotel, Amsterdam, Netherlands</b>	Design, delivery, installation, commissioning, software programming and start-up	1 AHU – fresh air for guest room; 1 AHU – fresh air for restaurant; 1 AHU – fresh air for SPA center; 1 AHU – fresh air for butcher; 1 AHU – fresh air for swimming pool; Control and monitoring of heating center with domestic hot water; Control and monitoring of heating and cooling center with water to water geothermal heat pump; Control and monitoring of local extract ventilation for dressing room; Control and monitoring of heating curtains; Monitoring of smoke exhaust ventilation for boiler room; ModBus integration of SPA systems (fire and ice bath, swimming pool and whirlpool); ModBus integration of energy meters; Mbus integration of water and gas meters; Individual room control LON integration; Monitoring of hydrophore, water leakage sensors, pipes heating and grease traps
			500 Physical Data Points
			300 Integration Data Points