Description of IoT Features

Service profile: IoT Fridge activity

ID	Feature	Type	Description
1	date	Date	Date of logging IoT telemetry data
2	time	Time	Time of logging IoT telemetry data
3	fridge_temperature	Number	Temperature measurement of a fridge sensor linked to the network
4	temp_condition	String	Temperature conditions of a fridge sensor linked to the network, where temperature is high of low based on a predefined threshold value
5	label	Number	Tag normal and attack records, where 0 indicates normal and 1 indicates attacks
6	type	String	Tag attack categories, such as normal, DoS, DDoS and backdoor attacks, and normal records

Service profile: IoT Garage_Door activity

ID	Feature	Type	Description
1	date	Date	Date of logging IoT telemetry data
2	time	Time	Time of logging IoT telemetry data
3	door_state	Boolean	State of a door sensor linked to the network where the door is closed or open
4	sphone_signal	Boolean	State of receiving the door signal on a phone where the signal is true or false
5	label	Number	Tag normal and attack records, where 0 indicates normal and 1 indicates attacks
6	type	String	Tag attack categories, such as normal, DoS, DDoS and backdoor attacks, and normal records

Service profile: IoT GPS_Tracker activity

ID	Feature	Type	Description
1	date	Date	Date of logging IoT telemetry data
2	time	Time	Time of logging IoT telemetry data
3	latitude	Number	Latitude value of GPS tracker sensor linked to the network
4	longitude	Number	longitude value of GPS tracker sensor linked to the network
5	label	Number	Tag normal and attack records, where 0 indicates normal and 1 indicates attacks
6	type	String	Tag attack categories, such as normal, DoS, DDoS and backdoor attacks, and normal records

Service profile: IoT Modbus activity

ID	Feature	Type	Description
1	date	Date	Date of logging IoT telemetry data
	time	Time	Time of logging IoT telemetry data
2	FC1_Read_Input_Register	Number	Modbus function code that is responsible for reading an input register
3	FC2_Read_Discrete_Value	Number	Modbus function code that is in charge of reading a discrete value
4	FC3_Read_Holding_Register	Number	Modbus function code that is responsible for reading a holding register
5	FC4_Read_Coil	Number	Modbus function code that is responsible for reading a coil
6	label	Number	Tag normal and attack records, where 0 indicates normal and 1 indicates attacks
7	type	String	Tag attack categories, such as normal, DoS, DDoS and backdoor attacks, and normal records

Service profile: IoT Motion_Light activity

ID	Feature	Type	Description
1	date	Date	Date of logging IoT telemetry data
2	time	Time	Time of logging IoT telemetry data
3	motion_status	Number	Status of a motion sensor is either on (i.e., 1) or off (i.e., 0)
4	light_status	Boolean	Status of a light sensor is either on or off
5	label	Number	Tag normal and attack records, where 0 indicates normal and 1 indicates attacks
6	type	String	Tag attack categories, such as normal, DoS, DDoS and backdoor attacks, and normal records

Service profile: IoT Thermostat activity

ID	Feature	Type	Description
1	date	Date	Date of logging IoT telemetry data
2	time	Time	Time of logging IoT telemetry data
3	current_temperature	Number	Current Temperature reading of a thermostat sensor connected with the network
4	thermostat_status	Boolean	Status of a thermostat sensor is either on or off
5	label	Number	Tag normal and attack records, where 0 indicates normal and 1 indicates attacks
6	type	String	Tag attack categories, such as normal, DoS, DDoS and backdoor attacks, and normal records

Service profile: IoT Weather activity			
ID	Feature	Type	Description
1	date	Date	Date of logging IoT telemetry data
2	time	Time	Time of logging IoT telemetry data
3	temperature	Number	Temperature measurements of a weather sensor linked to the network
4	pressure	Number	Pressure readings of a weather sensor linked to the network
5	humidity	Number	Humidity readings of a weather sensor linked to the network
6	label	Number	Tag normal and attack records, where 0 indicates normal and 1 indicates attacks
7	type	String	Tag attack categories, such as normal, DoS, DDoS and backdoor attacks, and normal records