uila

IDENTIFIED APPLICATIONS IN HEALTHCARE & LIFE SCIENCES

Uila automatically classifies more than **3,600** applications including Web, Database, Saas, Healthcare applications for EHR/EMR, Imaging, SCADA network based, Building Automation/Industrial/IoT application, etc. that are commonly seen in healthcare and Life Sciences environments.

This document lists those healthcare and its associated applications only. In addition to the applications and protocols mentioned in this document, Uila recognizes other apps and protocols that support the infrastructure architecture like DNS, DHCP, RADIUS, LDAP, SQL, Oracle, Mongo DB, SMB, Unified Communications based apps, etc.

For the full list of applications or protocols supported by Uila, please visit the Resources section on www.uila.com.

CLASSIFIED APPLICATIONS

Category	Application	Description	How it is indicated in Uila
Health & Medical Transactions	HL7/LLP	LLP is a protocol encapsulating messages. LLP is classified when it carries messages HL7 version 2.	llp
Imaging	DICOM	DICOM stands for Digital Imaging and Communications in Medicine, supported traffic on usual TCP port 104, 11112 (decrypted traffic, no support of DICOM-TLS or DICOM-ISCL).	dicom
Scada	Distributed Network Protocol	DNP3 (Distributed Network Protocol) is a set of protocols used between components in process automation systems (SCADA).	dnp3
	Ifix	Formerly Proficy HMI/SCADA iFIX, is an industrial automation system.	ifix
	MODBUS	Modbus is a standard communication protocol in industry for connecting industrial electronic devices (SCADA). Here, we consider modbus as the combination of Modbus/TCP (Transport layer for TCP/IP networks) and Modbus (serial communication protocol).	modbus
	Modbus Remote Terminal Unit	Traffic related to Modbus Remote Terminal Unit (RTU), a distributed control system used in industrial process control (Emerson Process Management).	modbus_rtu
	IEC 60870-5-104	IEC 60870-5-104 protocol (aka IEC 104) is a part of IEC Telecontrol Equipment and Systems Standard IEC 60870-5 that provides a communication profile for sending basic telecontrol messages between two systems in electrical engineering and power system automation.	iec104
	IEC 61850	IEC 61850 Sampled Measured Values (SMV or SV) is protocol used in Electrical substations to share data between Intelligent Electronic Device (IED) under hard real time constraints (IEC 61850-9-2).	iec61850_sv
	Siemens S7	S7comm (S7 Communication) is a Siemens proprietary protocol that runs between programmable logic controllers (PLCs) of the Siemens S7-300/400 family. It is used for PLC programming, exchanging data between PLCs, accessing PLC data from SCADA (supervisory control and data acquisition) systems and diagnostic purposes.	s7comm
	PI AF	OSI PI Analysis Framework SCADA protocol (AF Server, MDB Sync, etc.).	pi_af
	PI Data Archive	OSI PI DataArchive and Server SCADA protocol (ProcessBook, Datalink, etc.).	pi_data
	Common Industrial Protocol	The Common Industrial Protocol (CIP) is an industrial protocol for industrial automation applications.	cip

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Building Automation	BACnet Application layer	BACnet is a communication protocol for Building Automation and Control (BAC) networks defined by the standard ISO 16484-5. The BACnet stack defines different layers, the BACnet Application Layer (xbacnet_app) manages access to objects exposed by BACnet devices and operations done on them.	bacnet_app
	BACnet Network Layer	BACnet is a communication protocol for Building Automation and Control (BAC) networks defined by the standard ISO 16484-5. The BACnet stack defines different layers, the BACnet Network Layer (bacnet_net) contains the network addresses required for routing BACnet messages to BACnet devices.	bacnet_net
	BACnet Virtual Link Control	BACnet is a communication protocol for Building Automation and Control (BAC) networks defined by the standard ISO 16484-5. The BACnet stack defines different layers, the BACnet Virtual Link Control layer (bacnet_vlc) is used by BACnet devices over IP networks. It formalizes all the services that a BACnet device might require from the link layer but are not readily available from the underlying IP layer.	bacnet_vlc
Industrial & IoT apps used in healthcare/life sciences environments	OPC Unified Architecture	OPC is the interoperability standard for the secure and reliable exchange of data in the industrial automation space and in other industries. This plug-in classifies the OPC Unified Architecture (UA) binary protocol over TCP.	opcua
	Process Field Net	PROFINET (an acronym for Process Field Net) is an industry technical standard for data communication over Industrial Ethernet, designed for controlling and collecting data from equipment in industrial systems, with a particular strength in delivering data under tight time constraints (1ms or less). The standard is maintained and supported by Profibus & Profinet International, an umbrella organization headquartered in Karlsruhe, Germany.	profinet
	Ethernet/IP	ENIP (EtherNet/IP) is an industrial network protocol that adapts the Common Industrial Protocol to standard Ethernet.	enip
	Gige Vision Control Protocol	GVCP stands for Give Vision Control Protocol a standard for industrial cameras supported by several companies. This plugin classifies GVCP traffic related to control and discovery.	gvcp
	Constrained Application Protocol	CoAP (Constrained Application Protocol) is a specialized web transfer protocol for use with constrained nodes and constrained networks in the Internet of Things.	coap
	MQ Telemetry Transport	MQTT (MQ Telemetry Transport) is a machine-to-machine (M2M)/"Internet of Things"connectivity protocol. It was designed as an extremely lightweight publish/subscribe messaging transport. It is useful for connections with remote locations where a small code footprint is required and/or network bandwidth is at a premium.	mqtt
	DeltaV	Traffic related to DeltaV, a distributed control system used in industrial process control (Emerson Process Management).	deltav
	OPC Unified Architecture	OPC is the interoperability standard for the secure and reliable exchange of data in the industrial automation space and in other industries. This plug-in classifies the OPC Unified Architecture (UA) binary protocol over TCP.	opcua
Miscellaneous apps	Perforce Protocol	Perforce is a commercial, proprietary, centralized revision control system developed by Perforce Software, Inc.	perforce