




DATE: July 29, 2021

TO: Steve Roark
State Design Engineer
MS 47329

Ron Vessey
State Traffic Engineer
MS 47344

FROM: Flint Jackson 
State Traffic Electrical Systems Engineer
(360) 705-7392
MS 47344

SUBJECT: **Statewide Blanket Proprietary Item Certification
Equipment and Associated Software for Traffic Control,
Communications, Monitoring, Information, and Intelligent
Transportation Systems**

Approval Period: July 29, 2021 to June 30, 2023

Description:

The Traffic Office is providing certification in support of statewide blanket approval for the use of proprietary equipment for highway electrical systems such as Traffic Control, Communications, Monitoring, Information, and Intelligent Transportation Systems.

Justification:

The purpose of this certification is to continue a process that was established in February of 2008 when WSDOT and FHWA jointly approved a statewide pre-approved list of proprietary equipment and associated software for traffic control, monitoring, and information systems, and other intelligent transportation system (ITS) components. Consistent with the previous approvals, this list of items is primarily comprised of specialized electrical and electronic equipment or structural components that are an integral part of this equipment. If, during the approval period, the need to revise or append the list outlined in the attached appendices becomes apparent, the list shall be updated and item specific justification shall be provided.

This Statewide Blanket Proprietary Approval grants each Region approval for one (1) manufacturer for each category of equipment. Appendix A contains a complete list of all categories of equipment with a list of manufacturers that produce equipment for each category and the Region(s) in which they are approved for use. If the Region has an "X"

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associated with a specific manufacturer, then approval is granted to specify any product from that specific manufacturer for the given category of equipment.

All of the items listed in **Appendix A** are essential for **one or more** of the following justifications:

- 1) **Synchronization based on function**
- 2) **Synchronization based on logistics**
- 3) **No equally suitable alternative exists**

The statewide blanket approval for the items listed in Appendix A will allow each region to select the most appropriate piece of software or equipment necessary to fulfill the WSDOT mission. Designers are required to place justification in the project design file for the use of the selected proprietary item(s), as described in the Documentation section below.

Living Document:

Appendix A is considered a living document. Due to the rapidly changing nature of both the equipment and the companies manufacturing the equipment, the frequency of updates to Appendix A is both rapid and unpredictable. In order to accommodate this dynamic system, entries in Appendix A may be modified at any time. In order to preserve tracking and documentation, expired entries will remain in Appendix A with the date of and reason for expiration. New entries will be added as new lines in Appendix A with item specific justification. All entries will have an expiration date no later than June 30, 2023, coincident with the expiration date of this letter. This master expiration date is to ensure that the entire list is reviewed on a biennial basis, at the end of each WSDOT fiscal biennium.

Long Term:

The long range vision of this Statewide Blanket Approval is that all included equipment and software be evaluated to determine if a comparable and acceptable alternative can be successfully procured through performance specifications. Currently, national standards, such as NTCIP, are still not complete enough to ensure successful system operation for all types of ITS systems. In addition, each region has made significant investment in their respective ITS, electrical and electronic systems where procurement through performance specifications is neither practical nor viable due to system integration issues. WSDOT's experience has shown that for critical electronic components and software, it is best to test the operation of a specific manufacturer's product and then, if successful, specify that product for similar applications in the future until a comparable alternative becomes available that is capable of integrating with currently operating equipment and software.

Ultimately, competitive bidding for software and equipment based on performance specifications provides the maximum benefit to the public, and WSDOT strives to achieve that goal. However, near term, due to the significant cost, effort, and expertise

required to develop and maintain cost effective and timely performance specifications that would encompass the items listed in Appendix A, it is infeasible to pursue the performance specification approach without sacrificing function and/or logistics. WSDOT has discovered that even identifying a specific manufacturer and model number for each piece of software or equipment is challenging due to the synchronization and operational needs of WSDOT systems. There are variations in adjoining jurisdiction integration, geography, and availability of technology in each region, issues with the compatibility of equipment and software between similarly functioning systems from different manufacturers, mergers and acquisitions of existing manufacturers, and so on.

WSDOT is working to standardize on the minimum number of software packages and equipment manufactures possible to accomplish its mission. Through research and experience, WSDOT has made a **significant investment in selecting software and equipment that synchronizes with existing equipment in a way that is necessary for the satisfactory operation existing facilities**. Logistically, the continued streamlining of **an already significant investment in equipment parts in inventory, training, maintenance, operational familiarity and software licensing expenditures** represents an effective use of state and federal resources. In other cases, no equally suitable alternative exists.

WSDOT is continually evaluating the needs of our systems and selecting equipment that best meets those needs. As new products become available which impact the statements and conclusions outlined above for a justifiable reason, WSDOT will make updates to Appendix A and process subsequent approvals as appropriate. As performance standards are established and competitive bidding becomes viable, categories will be retired from this list.

Documentation:

Designers are required to place project specific justification in the Design Documentation Package indicating the need to use the selected proprietary item(s). The project file justification will require the specific manufacturer(s), model number(s) if available, and timely justifications that are most relevant at the time the proprietary item is selected during the design process. A brief statement describing the thought process leading up to the selection of the proprietary material shall be provided to document the decision making process. A copy of this justification, either electronic or hard copy, shall be sent to:


Flint Jackson
State Traffic Electrical Systems Engineer
Traffic Operations Division
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It should be noted that "Buy America" requirements are not covered or accounted for in this approval due to the broad scope nature of the proprietary equipment and categories. It is the responsibility of the Project Engineer or Project Manager to ensure that DOT Form 350-109 EF, Certificate of Materials Origin, is completed for all equipment being specified in the contract. Since WSDOT, as an agency, receives Federal Aid, this form is a requirement for all projects regardless of whether Federal Aid is being used specifically for the subject project.

Certification:

"I, Flint Jackson, State Traffic Electrical Systems Engineer, of the Washington State Department of Transportation, do hereby certify that the patented or proprietary items listed in Appendix A are either essential for synchronization with existing highway facilities based on product function and logistics or no equally suitable alternative exists."



Signature

7/29/2021

Date

Any questions regarding this certification should be directed to Flint Jackson, State Traffic Electrical Systems Engineer, at (360) 705-7392 or flint.jackson@wsdot.wa.gov.

FJ:fj

Attachment: Appendix A - WSDOT ITS Proprietary Equipment List (as of 01 July 2021);

The most current version of Appendix A is available from:

<https://www.wsdot.wa.gov/Design/Traffic/Electrical/>

Cc: Susan Wimberly, FHWA
Glenn Wagemann, Eastern Region Traffic Engineer
David Kieninger, North Central Region Traffic Engineer
Mark Leth, Northwest Region Traffic Engineer
Sarah Ott, Olympic Region Traffic Engineer
Todd Daley, South Central Region Traffic Engineer
Monica Harwood, Southwest Region Traffic Engineer
Rick Keniston, Assistant State Design Engineer
Jim Mahugh, Assistant State Design Engineer
Kevin Miller, Assistant State Design Engineer
Dean Moon, Assistant State Design Engineer
Scott Zeller, Assistant State Design Engineer
Matt Neeley, Major Electrical and Systems Planning Engineer
Region Project Development Engineers

Appendix A - WSDOT ITS Proprietary Equipment List

Group #	Category #	Entry #	Item #	Group Description	Category Description	ER Approval	NCR Approval	NWR Approval	OR Approval	SCR Approval	SWR Approval	Approved Equipment	Approved Manufacturer	Website	Approval Date	Expiration Date	Comments	
1	1	1	1.1.1	Battery Backup Systems	General	X	X	X	X	X	X	FXM 2000 and supporting equipment	Alpha Technologies, Ltd.	www.alpha.ca	1-Jul-2021	30-Jun-2023		
1	2	1	1.2.1	Battery Backup Systems	Large Microwave Site	X	X	X	X	X	X		Alpha Technologies, Ltd.	www.alpha.ca	1-Jul-2021	30-Jun-2023		
1	3	1	1.3.1	Battery Backup Systems	Small Microwave Site	X	X	X	X	X	X		Newmar	www.newmarpower.com	1-Jul-2021	30-Jun-2023		
2	1	1	2.1.1	Commercial Vehicle Management	Weigh-in-Motion (WIM) System - Antennas	X	X	X	X	X	X		Sinclair Technologies, Inc.	www.sinctech.com	1-Jul-2021	30-Jun-2023		
2	2	1	2.2.1	Commercial Vehicle Management	Weigh-in-Motion (WIM) System - Automatic Vehicle Identification (AVI) System	X	X	X	X	X	X		Telematics Wirelss USA Corp	www.telematics-wireless.com	1-Jul-2021	30-Jun-2023		
2	3	1	2.3.1	Commercial Vehicle Management	Weigh-in-Motion (WIM) System - Bending Plate Load Sensor	X	X	X	X	X	X	IRD-PAT Bending Plate	International Road Dynamics, Inc.	www.irdinc.com	1-Jul-2021	30-Jun-2023		
2	4	1	2.4.1	Commercial Vehicle Management	Weigh-in-Motion (WIM) System - High Accuracy Weight Sensor	X	X	X	X	X	X	Weigh-in-Motion Strip Sensor	Intercomp, Company	www.intercompcompany.com	1-Jul-2021	30-Jun-2023		
2	5	1	2.5.1	Commercial Vehicle Management	Weigh-in-Motion (WIM) System - Class I & II Piezoelectric Sensor	X	X	X	X	X	X	RoadTrax BL	TE Connectivity	www.te.com/usa-en/home.html	1-Jul-2021	30-Jun-2023		
2	6	1	2.6.1	Commercial Vehicle Management	Weigh-in-Motion (WIM) System - Controller System	X	X	X	X	X	X		International Road Dynamics, Inc.	www.irdinc.com	1-Jul-2021	30-Jun-2023		
2	7	1	2.7.1	Commercial Vehicle Management	Weigh-in-Motion (WIM) System - CVOCS	X	X	X	X	X	X		International Road Dynamics, Inc.	www.irdinc.com	1-Jul-2021	30-Jun-2023		
2	8	1	2.8.1	Commercial Vehicle Management	Weigh-in-Motion (WIM) System - CVReader and Confirmation Reader System	X	X	X	X	X	X		International Road Dynamics, Inc.	www.irdinc.com	1-Jul-2021	30-Jun-2023		
2	9	1	2.9.1	Commercial Vehicle Management	Weigh-in-Motion (WIM) System - Infrared Illuminator	X	X	X	X	X	X	Raymax Series	Raytec Americas	www.rayteccctv.com	1-Jul-2021	30-Jun-2023		
2	10	1	2.10.1	Commercial Vehicle Management	Weigh-in-Motion (WIM) System - Lane Control System	X	X	X	X	X	X		Orange Traffic	www.orangetraffic.com	1-Jul-2021	30-Jun-2023		
2	11	1	2.11.1	Commercial Vehicle Management	Weigh-in-Motion (WIM) System - License Plate Reader (LPR) Camera	X	X	X	X	X	X		Perceptics, LLC	www.perceptics.com	1-Jul-2021	30-Jun-2023		
2	12	1	2.12.1	Commercial Vehicle Management	Weigh-in-Motion (WIM) System - Load Cell Scale	X	X	X	X	X	X		International Road Dynamics, Inc.	www.irdinc.com	1-Jul-2021	30-Jun-2023		
2	13	1	2.13.1	Commercial Vehicle Management	Weigh-in-Motion (WIM) System - Manual Override Console	X	X	X	X	X	X		International Road Dynamics, Inc.	www.irdinc.com	1-Jul-2021	30-Jun-2023		
2	14	1	2.14.1	Commercial Vehicle Management	Weigh-in-Motion (WIM) System - Overheight Detector	X	X	X	X	X	X		Trigg Industries, LLC	www.triggindustries.com	1-Jul-2021	30-Jun-2023		
2	15	1	2.15.1	Commercial Vehicle Management	Weigh-in-Motion (WIM) System - Security Camera	X	X	X	X	X	X		CohuHD Costar, LLC	www.cohuhd.com	1-Jul-2021	30-Jun-2023		
2	16	1	2.16.1	Commercial Vehicle Management	Weigh-in-Motion (WIM) System - Site Overview Camera	X	X	X	X	X	X	Axis Q16 Series	Axis Communications, Inc.	www.axis.com	1-Jul-2021	30-Jun-2023		
2	17	1	2.17.1	Commercial Vehicle Management	Weigh-in-Motion (WIM) System - Site Overview Camera Support System	X	X	X	X	X	X		International Road Dynamics, Inc.	www.irdinc.com	1-Jul-2021	30-Jun-2023		
3	1	1	3.1.1	Data Collection	Induction Loop Detector Cards	X	X	X	X	X	X		Reno A&E	www.renoae.com	1-Jul-2021	30-Jun-2023		
3	2	1	3.2.1	Data Collection	Infrared Video - Counting Only	X	X	X	X	X	X	TIRTL System	CEOS Pty Ltd	www.ceos.com.au	1-Jul-2021	30-Jun-2023		
3	3	1	3.3.1	Data Collection	Infrared Video - Traffic Signal Systems	X	X	X	X	X	X		FLIR Systems, Inc.	www.flir.com	1-Jul-2021	30-Jun-2023		
3	4	1	3.4.1	Data Collection	License Plate Reader (LPR)	X	X	X	X	X	X	PIPS Technology P492 ALPR Camera	Neology, Inc.	www.pipstechnology.com	1-Jul-2021	30-Jun-2023		
3	5	1	3.5.1	Data Collection	Magnetometer (Wireless)	X	X	X	X	X	X		Sensys Networks, Inc.	www.sensysnetworks.com	1-Jul-2021	30-Jun-2023		
3	6	1	3.6.1	Data Collection	Media Access Control (MAC) Tracking Equipment						X	Bluemac x7	Bluemac Analytics	www.bluemacanalytics.com	1-Jul-2021	30-Jun-2023		
3	6	2	3.6.2	Data Collection	Media Access Control (MAC) Tracking Equipment	X	X	X	X	X	X	BlueTOAD	TrafficCast International, LLC	www.trafficcast.com	1-Jul-2021	30-Jun-2023		
3	7	1	3.7.1	Data Collection	Microwave (Presence, Speed, Count, and Classification)	X	X	X	X	X	X	SmartSensor Series	Wavetronix LLC	www.wavetronix.com	1-Jul-2021	30-Jun-2023		
3	8	1	3.8.1	Data Collection	Microwave (Speed Only)	X	X	X	X	X	X		SpeedInfo	www.speedinfo.com	1-Jul-2021	30-Jun-2023		
3	9	1	3.9.1	Data Collection	Permanent Traffic Recorders	X	X	X	X		X	BlackCat or Gen2 RADAR	Jamar Technologies	www.jamartech.com	1-Jul-2021	30-Jun-2023		
3	9	2	3.9.2	Data Collection	Permanent Traffic Recorders					X		Phoenix II	Diamond Traffic Products	www.diamondtraffic.com	1-Jul-2021	30-Jun-2023		
3	10	1	3.10.1	Data Collection	Permanent Traffic Recorders - For TDGO Applications	X	X	X	X	X	X		Diamond Traffic Products	www.diamondtraffic.com	1-Jul-2021	30-Jun-2023		
3	11	1	3.11.1	Data Collection	Portable Surveillance Trailers	X	X	X	X	X	X		Surveillance Systems	Wanco, Inc.	www.wanco.com	1-Jul-2021	30-Jun-2023	
3	12	1	3.12.1	Data Collection	Roadway Weather Information Systems (RWIS)	X	X	X	X	X	X		Vaisala, Inc.	www.vaisala.com/en	1-Jul-2021	30-Jun-2023		
3	13	1	3.13.1	Data Collection	Roadway Weather Information Systems (RWIS) - Tower Structure	X	X	X	X	X	X	MF-13XX Fold Over Tower	GlenMartin	glenmartin.com	1-Jul-2021	30-Jun-2023		
3	14	1	3.14.1	Data Collection	Data Aggregator	X						DA-300	Eberle Design, Inc.	www.editrtraffic.com	1-Jul-2021	30-Jun-2023		
4	1	1	4.1.1	Dynamic Message Signs (DMS)	Blank-Out Type	X	X	X	X	X	X		Wells Signs, Inc.	www.wellssigns.com	1-Jul-2021	30-Jun-2023		
4	2	1	4.2.1	Dynamic Message Signs (DMS)	Compact (Variable Speed Limit or Lane Utilization Type)	X	X	X	X	X	X	Vanguard VX-24XX Series	Daktronics, Inc.	www.daktronics.com	1-Jul-2021	30-Jun-2023		
4	3	1	4.3.1	Dynamic Message Signs (DMS)	Large - Front Access Type	X	X	X	X	X	X	Vanguard VF-2420 Series	Daktronics, Inc.	www.daktronics.com	1-Jul-2021	30-Jun-2023		
4	4	1	4.4.1	Dynamic Message Signs (DMS)	Large - Ground Mounted	X	X	X	X	X	X		ADDCO, Inc.	www.addco.com	1-Jul-2021	30-Jun-2023		
4	5	1	4.5.1	Dynamic Message Signs (DMS)	Large - Walk-In Type	X	X	X	X	X	X	Vanguard VF-2020 Series	Daktronics, Inc.	www.daktronics.com	1-Jul-2021	30-Jun-2023		
4	6	1	4.6.1	Dynamic Message Signs (DMS)	Mechanical / Rotating Drum	X	X	X	X	X	X		Skyline Products	www.skylineproducts.com	1-Jul-2021	30-Jun-2023		
4	7	1	4.7.1	Dynamic Message Signs (DMS)	Vehicle Activated Traffic Control Signs (VACTS) - Automated Curve and Speed Warning Signs	X	X	X	X	X	X	VATCS Series	Unipart Dorman	www.unipartdorman.com	1-Jul-2021	30-Jun-2023		
4	8	1	4.8.1	Dynamic Message Signs (DMS)	Static Sign Embedded (Travel Time/Toll Rate)	X	X	X	X	X	X	Vanguard VM-1020 Series	Daktronics, Inc.	www.daktronics.com	15-Jul-2021	30-Jun-2023	New subcategory added	
5	1	1	5.1.1	Illumination	High Mast Lowering Device System	X	X	X	X	X	X	LD15	Holophane	www.holophane.com	1-Jul-2021	30-Jun-2023		
5	2	1	5.2.1	Illumination	Navigation Lighting System	X	X	X	X	X	X		B&B Roadway	www.bbrss.com	1-Jul-2021	30-Jun-2023		
5	3	1	5.4.1	Illumination	Tunnel Lighting Control System	X	X	X	X	X	X	T-Series	PLC Multipoint	plcmultipoint.com	1-Jul-2021	30-Jun-2023		
6	1	1	6.1.1	Network Communications	Combiners - RS-422 - Camera Control Only	X	X	X					Pelco, by Schneider Electric	www.pelco.com	1-Jul-2021	30-Jun-2023		
6	1	2	6.1.2	Network Communications	Combiners - RS-422 - Camera Control Only				X				Vicon Industries	www.vicon-security.com	1-Jul-2021	30-Jun-2023		
6	2	1	6.2.1	Network Communications	Combiners - RS-422 - General	X	X	X	X	X	X		Vicon Industries	www.vicon-security.com	1-Jul-2021	30-Jun-2023		
6	3	1	6.3.1	Network Communications	Converters (CVISN Applications Only (RS232 to IP, Serial to Ethernet, IP to Fiber))	X	X	X	X	X	X		Moxa, Inc.	www.moxa.com	1-Jul-2021	30-Jun-2023		
6	4	1	6.4.1	Network Communications	Converters (HUB or Cabinet) - IP to Fiber	X					X		Sigura, Inc.	www.sigura.com	1-Jul-2021	30-Jun-2023	Formerly Optelecom	
6	4	2	6.4.2	Network Communications	Converters (HUB or Cabinet) - IP to Fiber		X	X	X	X			Advantech B&B SmartWorx	www.bb-elec.com	1-Jul-2021	30-Jun-2023		
6	5	1	6.5.1	Network Communications	Converters (HUB or Cabinet) - RS422 to RS232		X	X	X	X			Advantech B&B SmartWorx	www.bb-elec.com	1-Jul-2021	30-Jun-2023		
6	5	2	6.5.2	Network Communications	Converters (HUB or Cabinet) - RS422 to RS232	X							Black Box Corp.	www.blackbox.com	1-Jul-2021	30-Jun-2023		

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Group #	Category #	Entry #	Item #	Group Description	Category Description	ER Approval	NCR Approval	NWR Approval	OR Approval	SCR Approval	SWR Approval	Approved Equipment	Approved Manufacturer	Website	Approval Date	Expiration Date	Comments
6	6	1	6.6.1	Network Communications	Converters (HUB or Cabinet) - Serial to IP					X			Advantech B&B SmartWorx	www.bb-elec.com	1-Jul-2021	30-Jun-2023	
6	6	2	6.6.2	Network Communications	Converters (HUB or Cabinet) - Serial to IP		X	X					Moxa, Inc.	www.moxa.com	1-Jul-2021	30-Jun-2023	
6	6	3	6.6.3	Network Communications	Converters (HUB or Cabinet) - Serial to IP	X			X		X	Ruggedcom Series	Siemens, AG	w3.siemens.com/mcims/industrial-communication/en/rugged-communication/ruggedcom-portfolio/Pages/portfolio.aspx	1-Jul-2021	30-Jun-2023	
6	7	1	6.7.1	Network Communications	Cross-Connect Panels	X	X	X	X	X	X		TE Connectivity	www.te.com/usa-en/home.html	1-Jul-2021	30-Jun-2023	
6	8	1	6.8.1	Network Communications	Fiber Optic Patch Panels	X					X		Amphenol Telect	www.telect.com	1-Jul-2021	30-Jun-2023	
6	8	2	6.8.2	Network Communications	Fiber Optic Patch Panels						X		Bejed, Inc.	www.bejed.com	1-Jul-2021	30-Jun-2023	
6	8	3	6.8.3	Network Communications	Fiber Optic Patch Panels		X						TE Connectivity	www.te.com/usa-en/home.html	1-Jul-2021	30-Jun-2023	
6	8	4	6.8.4	Network Communications	Fiber Optic Patch Panels			X	X				Wesco/Communications Supply Corp.	www.wesco.com	1-Jul-2021	30-Jun-2023	
6	9	1	6.9.1	Network Communications	Fuse / Alarm Panels	X	X						Amphenol Telect	www.telect.com	1-Jul-2021	30-Jun-2023	
6	9	2	6.9.2	Network Communications	Fuse / Alarm Panels			X	X	X	X		Communications Network Systems, Inc.	www.telect.com	1-Jul-2021	30-Jun-2023	Cannot locate company
6	10	1	6.10.1	Network Communications	Modems - Cellular "Dial-up" (General Use)		X	X	X	X	X	ConnectPort and TransPort Series	Digi International	www.digi.com	1-Jul-2021	30-Jun-2023	
6	10	2	6.10.2	Network Communications	Modems - Cellular "Dial-up" (General Use)	X							Telular	www.telular.com	1-Jul-2021	30-Jun-2023	
6	11	1	6.11.1	Network Communications	Modems - Hard-Line (POTS) Dial Up (General Use)	X		X	X		X	MDS iNET Series	General Electric	www.gegridsolutions.com	1-Jul-2021	30-Jun-2023	
6	11	2	6.11.2	Network Communications	Modems - Hard-Line (POTS) Dial Up (General Use)		X			X			Raymar Telenetics	www.raymar-telenetics.com	1-Jul-2021	30-Jun-2023	
6	12	1	6.12.1	Network Communications	Modems - Hard-Line (POTS) Dial Up (TDGO Specific)	X	X	X	X	X	X		Infotec	www.infotec.com	1-Jul-2021	30-Jun-2023	
6	13	1	6.13.1	Network Communications	Modems - Cellular IP (General Use)	X	X	X	X	X	X	AirLink Series	Sierra Wireless	www.sierrawireless.com	1-Jul-2021	30-Jun-2023	
6	14	1	6.14.1	Network Communications	Modems - Cellular IP (TDGO Specific)	X	X	X	X	X	X	AirLink Series	Sierra Wireless	www.sierrawireless.com	1-Jul-2021	30-Jun-2023	
6	15	1	6.15.1	Network Communications	Modems - Twisted Pair Networking	X	X	X	X	X	X		GDI Communications, LLC	www.sqdi.com	1-Jul-2021	30-Jun-2023	
6	16	1	6.16.1	Network Communications	Router (Ethernet)	X	X	X	X	X	X		Cisco Systems, Inc.	www.cisco.com	1-Jul-2021	30-Jun-2023	
6	17	1	6.17.1	Network Communications	Switches - Video or Data - Analog, Ethernet, and Fiber - For DIS or IT (Not for ITS)	X	X	X	X	X	X		Cisco Systems, Inc.	www.cisco.com	1-Jul-2021	30-Jun-2023	
6	18	1	6.18.1	Network Communications	Switches - Video or Data - Analog, Ethernet, and Fiber - For ITS	X							Vicon Industries	www.vicon-security.com	1-Jul-2021	30-Jun-2023	
6	18	2	6.18.2	Network Communications	Switches - Video or Data - Analog, Ethernet, and Fiber - For ITS		X			X		IFS Series	Interlogix	www.interlogix.com	1-Jul-2021	30-Jun-2023	
6	18	3	6.18.3	Network Communications	Switches - Video or Data - Analog, Ethernet, and Fiber - For ITS			X	X			American Dynamics	Tyco International Ltd.	www.americandynamics.net	1-Jul-2021	30-Jun-2023	
6	18	4	6.18.4	Network Communications	Switches - Video or Data - Analog, Ethernet, and Fiber - For ITS						X		Philips		1-Jul-2021	30-Jun-2023	
6	19	1	6.19.1	Network Communications	Switches - Video or Data - Analog, Ethernet, and Fiber - For Transmitting Video Externally Through a Web Service	X	X	X	X	X	X		Blonder Tongue Laboratories, Inc.	www.blondertonque.com	1-Jul-2021	30-Jun-2023	
6	20	1	6.20.1	Network Communications	Switches - Video or Data - Ethernet Only	X						Industrial Ethernet Series	Cisco Systems, Inc.	www.cisco.com	1-Jul-2021	30-Jun-2023	
6	20	2	6.20.2	Network Communications	Switches - Video or Data - Ethernet Only		X			X			EtherWAN Systems, Inc.	www.etherwan.com/us	1-Jul-2021	30-Jun-2023	
6	20	3	6.20.3	Network Communications	Switches - Video or Data - Ethernet Only			X	X		X	Ruggedcom Series	Siemens, AG	w3.siemens.com/mcims/industrial-communication/en/rugged-communication/ruggedcom-portfolio/Pages/portfolio.aspx	1-Jul-2021	30-Jun-2023	
6	21	1	6.21.1	Network Communications	Switches - Voice over IP (VoIP)	X	X	X	X	X	X		Ribbon Communications Operating Compa	ribboncommunications.com	1-Jul-2021	30-Jun-2023	Formerly Sonus
6	22	1	6.22.1	Network Communications	Synchronous Optical NETwork (SONET) System	X	X	X	X	X	X		Cisco Systems, Inc.	www.cisco.com	1-Jul-2021	30-Jun-2023	
6	23	1	6.23.1	Network Communications	Terminal Server (Field/Cabinet)	X	X	X	X	X	X	Ruggedcom Series	Siemens, AG	w3.siemens.com/mcims/industrial-communication/en/rugged-communication/ruggedcom-portfolio/Pages/portfolio.aspx	1-Jul-2021	30-Jun-2023	
6	24	1	6.24.1	Network Communications	Terminal Server (HUB)			X	X				Digi International	www.digi.com	1-Jul-2021	30-Jun-2023	
6	24	2	6.24.2	Network Communications	Terminal Server (HUB)	X	X						Lantronix, Inc.	www.lantronix.com	1-Jul-2021	30-Jun-2023	
6	24	3	6.24.3	Network Communications	Terminal Server (HUB)					X	X		Moxa, Inc.	www.moxa.com	1-Jul-2021	30-Jun-2023	
6	25	1	6.25.1	Network Communications	Transceiver (Fiber Optic/Ethernet)	X							Cisco Systems, Inc.	www.cisco.com	1-Jul-2021	30-Jun-2023	
6	25	2	6.25.2	Network Communications	Transceiver (Fiber Optic/Ethernet)		X			X			EtherWAN Systems, Inc.	www.etherwan.com/us	1-Jul-2021	30-Jun-2023	
6	25	3	6.25.3	Network Communications	Transceiver (Fiber Optic/Ethernet)			X					Radiant Communications Corp.	www.rcfiber.com	1-Jul-2021	30-Jun-2023	
6	25	4	6.25.4	Network Communications	Transceiver (Fiber Optic/Ethernet)				X		X	Ruggedcom Series	Siemens, AG	w3.siemens.com/mcims/industrial-communication/en/rugged-communication/ruggedcom-portfolio/Pages/portfolio.aspx	1-Jul-2021	30-Jun-2023	
6	26	1	6.26.1	Network Communications	Transceiver (Fiber Optic/Ethernet) - For Internal and External IT Users ONLY (No ITS)	X	X	X	X	X	X		Cisco Systems, Inc.	www.cisco.com	1-Jul-2021	30-Jun-2023	
6	27	1	6.27.1	Network Communications	Transmission (Video or Data)			X					Artel Video Systems	www.artel.com	1-Jul-2021	30-Jun-2023	
6	27	2	6.27.2	Network Communications	Transmission (Video or Data)	X							Cisco Systems, Inc.	www.cisco.com	1-Jul-2021	30-Jun-2023	
6	27	3	6.27.3	Network Communications	Transmission (Video or Data)		X			X	X		IndigoVision	www.indigovision.com	1-Jul-2021	30-Jun-2023	
6	27	4	6.27.4	Network Communications	Transmission (Video or Data)				X				Siemens, AG	w3.siemens.com/mcims/industrial-communication/en/rugged-communication/ruggedcom-portfolio/Pages/portfolio.aspx	1-Jul-2021	30-Jun-2023	

Appendix A - WSDOT ITS Proprietary Equipment List

Group #	Category #	Entry #	Item #	Group Description	Category Description	ER Approval	NCR Approval	NWR Approval	OR Approval	SCR Approval	SWR Approval	Approved Equipment	Approved Manufacturer	Website	Approval Date	Expiration Date	Comments
6	28	1	6.28.1	Network Communications	Transmitters and Receivers (Video and Data)	X							Cisco Systems, Inc.	www.cisco.com	1-Jul-2021	30-Jun-2023	
6	28	2	6.28.2	Network Communications	Transmitters and Receivers (Video and Data)					X			Interlogix	www.interlogix.com	1-Jul-2021	30-Jun-2023	
6	28	3	6.28.3	Network Communications	Transmitters and Receivers (Video and Data)		X	X			X		Siqura, Inc.	www.siqura.com	1-Jul-2021	30-Jun-2023	Formerly Optelecom
6	28	4	6.28.4	Network Communications	Transmitters and Receivers (Video and Data)				X				Siemens, AG	https://w3.siemens.com/mcims/industry-communication/en/rugged-communication/ruggedcom-portfolio/Pages/portfolio.aspx	1-Jul-2021	30-Jun-2023	
6	29	1	6.29.1	Network Communications	Transmitters and Receivers (Video and Data) - For Internal and External IT Users ONLY (No ITS)	X	X	X	X	X	X		Cisco Systems, Inc.	www.cisco.com	1-Jul-2021	30-Jun-2023	
6	30	1	6.30.1	Network Communications	Video and Data Servers; Video Encoder/Decoder Equipment (Fixed Snap Shot Cameras)	X	X	X	X	X	X		Axis Communications AB	www.axis.com	1-Jul-2021	30-Jun-2023	
6	31	1	6.31.1	Network Communications	Video and Data Servers; Video Encoder/Decoder Equipment (Live Streaming Video Cameras)		X		X	X			IndigoVision	www.indigovision.com	1-Jul-2021	30-Jun-2023	
6	31	2	6.31.2	Network Communications	Video and Data Servers; Video Encoder/Decoder Equipment (Live Streaming Video Cameras)						X		IONodes	www.ionodes.com	1-Jul-2021	30-Jun-2023	
6	31	3	6.31.3	Network Communications	Video and Data Servers; Video Encoder/Decoder Equipment (Live Streaming Video Cameras)			X					Radiant Communications Corp.	www.rccfiber.com	1-Jul-2021	30-Jun-2023	
6	31	4	6.31.4	Network Communications	Video and Data Servers; Video Encoder/Decoder Equipment (Live Streaming Video Cameras)	X							Siqura, Inc.	www.siqura.com	1-Jul-2021	30-Jun-2023	Formerly Optelecom
6	32	1	6.32.1	Network Communications	Video Distribution Amplifier	X	X		X				Interlogix	www.interlogix.com	1-Jul-2021	30-Jun-2023	
6	32	2	6.32.2	Network Communications	Video Distribution Amplifier		X		X				Krameray Electronics	www.krameray.com/us	1-Jul-2021	30-Jun-2023	
6	32	3	6.32.3	Network Communications	Video Distribution Amplifier						X		Pelco, by Schneider Electric	www.pelco.com	1-Jul-2021	30-Jun-2023	
7	1	1	7.1.1	Network Communications - Wireless	900 Mhz Non-Line of Sight Ethernet or Non-Video Data	X	X	X	X	X	X	MDS iNET Series	General Electric	www.gegridsolutions.com	1-Jul-2021	30-Jun-2023	
7	2	1	7.2.1	Network Communications - Wireless	Antennas		X						Andrew Antenna (CommScope)	www.commscope.com/Andrew-Telecom/	1-Jul-2021	30-Jun-2023	
7	2	2	7.2.2	Network Communications - Wireless	Antennas	X		X	X	X	X		PCTEL	www.pctel.com	1-Jul-2021	30-Jun-2023	Formerly MaxRad Antennas
7	3	1	7.3.1	Network Communications - Wireless	Backbone - Point-to-Point Long Range	X	X	X	X	X	X		Nokia	www.nokia.com	1-Jul-2021	30-Jun-2023	Formerly Alcatel-Lucent
7	4	1	7.4.1	Network Communications - Wireless	Digital for Video and Non-Video Data			X	X	X	X		Encom Wireless	www.encomwireless.com	1-Jul-2021	30-Jun-2023	
7	4	2	7.4.2	Network Communications - Wireless	Digital for Video and Non-Video Data		X						Harris Corp.	www.harris.com	1-Jul-2021	30-Jun-2023	
7	4	3	7.4.3	Network Communications - Wireless	Digital for Video and Non-Video Data	X							Verint	www.verint.com	1-Jul-2021	30-Jun-2023	
7	5	1	7.5.1	Network Communications - Wireless	Interconnect - General Traffic Signal Controller Applications	X	X	X	X	X	X		Astron Wireless	www.astronwireless.com	1-Jul-2021	30-Jun-2023	
7	6	1	7.6.1	Network Communications - Wireless	Interconnect - IP Type (Includes Type 2070 Traffic Signal Controllers)		X			X			Encom Wireless	www.encomwireless.com	1-Jul-2021	30-Jun-2023	
7	6	2	7.6.2	Network Communications - Wireless	Interconnect - IP Type (Includes Type 2070 Traffic Signal Controllers)	X		X	X		X	MDS iNET Series	General Electric	www.gegridsolutions.com	1-Jul-2021	30-Jun-2023	
7	7	1	7.7.1	Network Communications - Wireless	Interconnect - Type 170 Traffic Signal Controllers	X	X	X	X	X	X		Encom Wireless	www.encomwireless.com	1-Jul-2021	30-Jun-2023	
7	8	1	7.8.1	Network Communications - Wireless	Mesh Communication Systems	X	X	X	X	X	X		Firetide, Inc.	www.firetide.com	1-Jul-2021	30-Jun-2023	
7	9	1	7.9.1	Network Communications - Wireless	Monitoring Systems	X	X	X	X	X	X		Fial, Inc.	www.fial.com	1-Jul-2021	30-Jun-2023	
7	10	1	7.10.1	Network Communications - Wireless	Short, Mid and Long Range	X	X	X	X	X	X		Solectek	www.solectek.com	1-Jul-2021	30-Jun-2023	
7	11	1	7.11.1	Network Communications - Wireless	TDGO Applications	X	X	X	X	X	X		Star Microwave	www.starmicrowave.com	1-Jul-2021	30-Jun-2023	Formerly Exalt Communications
7	12	1	7.12.1	Network Communications - Wireless	Towers and Support Equipment	X	X	X	X	X	X		Valmont Industries, Inc.	www.valmont.com	1-Jul-2021	30-Jun-2023	
7	13	1	7.13.1	Network Communications - Wireless	Wide Area Data (Non Line of Sight, Omni)	X	X	X	X	X	X		RF Technology Americas	www.rftechnologyamericas.com	1-Jul-2021	30-Jun-2023	Formerly ipMobileNet
8	1	1	8.1.1	Other	Horizontal Warning Gates	X	X	X	X	X	X	HW Series	B&B Roadway	www.bbrss.com	1-Jul-2021	30-Jun-2023	
8	2	1	8.2.1	Other	Motion Sensor Equipment	X	X	X	X	X	X	Outdoor Wired Detectors	The Crow Group	www.thecrowgroup.com	1-Jul-2021	30-Jun-2023	
8	3	1	8.3.1	Other	Signs - Internally Illuminated (Below Grade or Ground Level for Delineation)	X	X	X	X	X	X	Concourse Flexible Bollard	Traffic Sign Solutions	www.trafficsignsolutions.com	1-Jul-2021	30-Jun-2023	
8	4	1	8.4.1	Other	Signs - Mounting Brackets	X	X	X	X	X	X		Pelco Products, Inc.	www.pelcoinc.com/find-a-product-2/	1-Jul-2021	30-Jun-2023	
8	5	1	8.5.1	Other	Signs - with Embedded Flashing Lights	X	X	X	X	X	X	BlinkerSign Series	TAPCO, Inc.	www.tapconet.com	1-Jul-2021	30-Jun-2023	
9	1	1	9.1.1	Power	Power Supply Systems for Isolated Sites	X	X	X	X	X	X		OutBack Power, Inc.	www.outbackpower.com	1-Jul-2021	30-Jun-2023	
9	2	1	9.2.1	Power	Transient Voltage / Surge Suppression Systems (Communication Applications)	X	X	X	X	X	X	Edco Series	ASCO Power Technologies	www.ascopower.com	1-Jul-2021	30-Jun-2023	
9	3	1	9.3.1	Power	Transient Voltage / Surge Suppression Systems (Line Applications)	X	X	X	X	X	X	Transtector Series	Infinite Electronics International, Inc.	www.transtector.com	1-Jul-2021	30-Jun-2023	
10	1	1	10.1.1	Radio	Highway Advisory Radio (HAR)	X	X	X	X	X	X	BlackMax Series	M. H. Corbin	www.mhcorbin.com	1-Jul-2021	30-Jun-2023	
10	2	1	10.2.1	Radio	Highway Advisory Radio (HAR) - Antenna Equipment Only	X	X	X	X	X	X		Morad Antenna Company	www.morad.com	1-Jul-2021	30-Jun-2023	
11	1	1	11.1.1	Traffic Signals	Conflict Monitors	X	X	X	X	X	X	2010ECL and 2018ECL Series	Eberle Design, Inc.	www.editrtraffic.com	1-Jul-2021	30-Jun-2023	
11	2	1	11.2.1	Traffic Signals	Controller Equipment and Software (170, 2070, 2070L (Light), 2070N (NEMA), and 2070 ATC)				X				Econolite	www.econolite.com	1-Jul-2021	30-Jun-2023	
11	2	2	11.2.2	Traffic Signals	Controller Equipment and Software (170, 2070, 2070L (Light), 2070N (NEMA), and 2070 ATC)	X		X					Intelight	www.intelight-its.com	1-Jul-2021	30-Jun-2023	
11	2	3	11.2.3	Traffic Signals	Controller Equipment and Software (170, 2070, 2070L (Light), 2070N (NEMA), and 2070 ATC)		X						McCain, Inc.	www.mccain-inc.com	1-Jul-2021	30-Jun-2023	
11	2	4	11.2.4	Traffic Signals	Controller Equipment and Software (170, 2070, 2070L (Light), 2070N (NEMA), and 2070 ATC)						X		Trafficware	www.trafficware.com	1-Jul-2021	30-Jun-2023	
11	3	1	11.3.1	Traffic Signals	Emergency Vehicle Preemption (EVP) Equipment	X	X	X	X	X	X	Opticom Series	Global Traffic Technologies, LLC	www.gtt.com	1-Jul-2021	30-Jun-2023	
11	4	1	11.4.1	Traffic Signals	Railroad Pre-Emption Equipment	X	X	X	X	X	X	x-RPS System	Rio Grande Pacific Technology	riotechnology.com	1-Jul-2021	30-Jun-2023	Formerly CTC, Inc.

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12	1	1	12.1.1	Video	Closed Circuit Television (CCTV) Camera Equipment - Attachment Hardware and Power Supply	X	X	X	X	X	X		Pelco Products, Inc.	www.pelcoinc.com/find-a-product-2/	1-Jul-2021	30-Jun-2023	
12	2	1	12.2.1	Video	Closed Circuit Television (CCTV) Camera Equipment - Fixed (no PTZ) Camera	X		X	X	X			CohuHD Costar, LLC	www.cohuhd.com	1-Jul-2021	30-Jun-2023	
12	2	2	12.2.2	Video	Closed Circuit Television (CCTV) Camera Equipment - Fixed (no PTZ) Camera						X		Panasonic	security.panasonic.com	1-Jul-2021	30-Jun-2023	Approved for Camera without Housing Only
12	2	3	12.2.3	Video	Closed Circuit Television (CCTV) Camera Equipment - Fixed (no PTZ) Camera						X		Pelco, by Schnieder Electric	www.pelco.com	1-Jul-2021	30-Jun-2023	Approved for Housings Only
12	2	4	12.2.4	Video	Closed Circuit Television (CCTV) Camera Equipment - Fixed (no PTZ) Camera		X						Everfocus	www.everfocus.com	1-Jul-2021	30-Jun-2023	
12	3	1	12.3.1	Video	Closed Circuit Television (CCTV) Camera Equipment - Infrared Camera	X	X	X	X	X	X		Bosch	us.boschsecurity.com	1-Jul-2021	30-Jun-2023	
12	4	1	12.4.1	Video	Closed Circuit Television (CCTV) Camera Equipment - Pan, Tilt, and Zoom (PTZ) Camera	X		X	X	X	X	RISE 4260HD Series	CohuHD Costar, LLC	www.cohuhd.com	1-Jul-2021	30-Jun-2023	
12	4	2	12.4.2	Video	Closed Circuit Television (CCTV) Camera Equipment - Pan, Tilt, and Zoom (PTZ) Camera		X						Pelco, by Schnieder Electric	www.pelco.com	1-Jul-2021	30-Jun-2023	
12	5	1	12.5.1	Video	Digital Video Recorder (DVR)		X						Indigovision	www.indigovision.com	1-Jul-2021	30-Jun-2023	
12	5	2	12.5.2	Video	Digital Video Recorder (DVR)	X		X	X	X	X		Mirasys Ltd.	www.mirasys.com	1-Jul-2021	30-Jun-2023	