

WEM304 Status Monitoring of the EPICS Control System at the Canadian Light Source

Goal— Monitor Overall Health of the Control System **Goal**— Monitor Actual Process Variable Requests and Connections **Goal**— Report Anomalies Before Problems Occur (or before anyone else notices) **Goal**— Don't Duplicate the Alarm Handler! **Goal**— Minimize changes to Existing Applications **Goal**— Improve accuracy of IRMIS database

WHY?

To automate the effort of tracking changes to the control system both planned and unplanned!

The potential to track all applications: where they're running, when last restarted, what Process Variables are controlled

The potential to track Process Variable connections: knowing where a

PV resides, and what applications are making requests for that Process

< 🛛 IOC Monit × 🎉 Canadian 💋 Cycle_23 CID Projects ICALEPCS 201 🚱 Accomm 🧚 Sho	NC User Services 🛛 💽 ICALEPC 🔋 Projects 📄 ReQlogic 9 🛛 🗞 MOCRAF	PI Digital an User:Wrightg 🔲 ReC > + 👻 💷 💷 💌
♦ @ epicsgw-51-2:5067		→ ☆ 自 ♥ ♣ 余 ♥ ☰
🦲 Most Visited 🗍 Getting Started 📴 CLS Intranet Home - H 🗍 CLS Wiki 📴 Work and Scheduling		

PVS IOCS GROUPS BEACONS HEARTBEATS HOSTS

All IOCs 409 IOCS (with 922 EPICS server apps) All IOCs

BPML1608-301 (1)	BPML2401-101 (1)	BPML2401-102 (1)	BPML2401-103 (1)	BPML2401-104 (1)	BPML2403-101 (1)	BPML2403-102 (1)	BPML2403-103 (1)	BPML2403-104 (1)	BPML2403-105 (1)	BPML2403-106 (1)	BPML2405-201 (1)
BPML2406-301 (1)	BPML2406-302 (1)	BPML2406-303 (1)	BPML2408-101 (1)	BPML2408-102 (1)	CLS-f8-b1-56-de-42-50 (1)	CSS1021-102 (5)	CSS2400-108 (1)	EPICSGATEWAY (0)	<u>IOC0000-001 (1)</u>	<u>IOC0000-007 (1)</u>	<u>IOC0000-015 (1)</u>
<u>IOC0000-022 (0)</u>	<u>IOC0000-040 (1)</u>	<u>IOC0000-045 (1)</u>	IOC0000-E01-01 (1)	IOC0000-E03-01 (2)	<u>IOC0000-E09-01 (1)</u>	IOC0000-E09-02 (1)	<u>IOC0004-006 (1)</u>	<u>IOC0004-007 (4)</u>	<u>IOC0004-008 (3)</u>	<u>IOC0006-102 (2)</u>	<u>IOC0006-105 (2)</u>
<u>IOC0009-001 (1)</u>	<u>IOC0009-202 (1)</u>	<u>IOC0013-001 (1)</u>	<u>IOC0102-102 (3)</u>	<u>IOC0102-104 (2)</u>	<u>IOC0102-401 (1)</u>	<u>IOC0102-402 (2)</u>	<u>IOC0102-404 (3)</u>	<u>IOC0102-405 (3)</u>	<u>IOC0105-602 (2)</u>	<u>IOC1021-201 (2)</u>	<u>IOC1021-504 (2)</u>
<u>IOC1022-101 (1)</u>	<u>IOC1022-102 (1)</u>	IOC1022-103 (1)	IOC1022-104 (1)	IOC1023-001 (2)	<u>IOC1029-001 (2)</u>	IOC1032-001 (4)	<u>IOC1032-002 (4)</u>	<u>IOC1045-001 (0)</u>	IOC1066-001 (1)	<u>IOC1104-101 (2)</u>	<u>IOC1104-102 (6)</u>
<u>IOC1104-104 (2)</u>	IOC1126-002 (3)	<u>IOC1126-003 (1)</u>	<u>IOC1126-005 (2)</u>	<u>IOC1126-006 (2)</u>	<u>IOC1126-007 (7)</u>	IOC1126-008 (2)	<u>IOC1406-001 (2)</u>	<u>IOC1406-002 (2)</u>	<u>IOC1408-001 (2)</u>	<u>IOC1408-002 (2)</u>	<u>IOC1500-101 (2)</u>
<u>IOC1500-103 (2)</u>	<u>IOC1503-001 (2)</u>	<u>IOC1503-002 (2)</u>	<u>IOC1503-003 (1)</u>	<u>IOC1504-001 (7)</u>	IOC1504-002 (4)	IOC1601-101 (6)	<u>IOC1601-102 (4)</u>	<u>IOC1602-101 (7)</u>	<u>IOC1602-102 (2)</u>	<u>IOC1602-103 (3)</u>	<u>IOC1602-104 (1)</u>
<u>IOC1606-001 (2)</u>	IOC1606-004 (4)	<u>IOC1606-010 (1)</u>	IOC1606-011 (1)	<u>IOC1606-012 (1)</u>	IOC1606-013 (1)	IOC1606-014 (14)	IOC1606-015 (3)	<u>IOC1606-017 (1)</u>	<u>IOC1606-018 (2)</u>	<u>IOC1606-022 (8)</u>	<u>IOC1606-025 (2)</u>
<u>IOC1606-201 (4)</u>	<u>IOC1606-207 (4)</u>	<u>IOC1606-208 (2)</u>	<u>IOC1606-212 (2)</u>	<u>IOC1606-401 (2)</u>	IOC1606-501 (2)	<u>IOC1606-503 (1)</u>	<u>IOC1606-504 (2)</u>	<u>IOC1606-505 (2)</u>	<u>IOC1606-506 (1)</u>	<u>IOC1606-601 (2)</u>	IOC1606-602 (1)
<u>IOC1607-001 (1)</u>	<u>IOC1607-002 (2)</u>	<u>IOC1607-003 (14)</u>	<u>IOC1607-004 (1)</u>	<u>IOC1607-005 (1)</u>	<u>IOC1607-007 (5)</u>	IOC1607-008 (3)	<u>IOC1607-009 (5)</u>	<u>IOC1607-010 (2)</u>	<u>IOC1607-102 (4)</u>	<u>IOC1607-203 (7)</u>	<u>IOC1607-501 (2)</u>
<u>IOC1607-502 (3)</u>	<u>IOC1607-601 (1)</u>	<u>IOC1607-602 (1)</u>	<u>IOC1607-603 (1)</u>	<u>IOC1607-701 (1)</u>	<u>IOC1608-001 (4)</u>	<u>IOC1608-004 (3)</u>	IOC1608-008 (15)	<u>IOC1608-009 (1)</u>	<u>IOC1608-010 (1)</u>	<u>IOC1608-011 (1)</u>	<u>IOC1608-017 (2)</u>
<u>IOC1608-018 (2)</u>	<u>IOC1608-021 (15)</u>	<u>IOC1608-022 (2)</u>	<u>IOC1608-023 (1)</u>	<u>IOC1608-024 (3)</u>	<u>IOC1608-025 (2)</u>	<u>IOC1608-1001 (3)</u>	<u>IOC1608-301 (7)</u>	<u>IOC1608-302 (6)</u>	<u>IOC1608-502 (4)</u>	<u>IOC1608-901 (4)</u>	<u>IOC1610-001 (4)</u>
<u>IOC1610-002 (3)</u>	<u>IOC1610-003 (2)</u>	<u>IOC1610-020 (1)</u>	<u>IOC1610-021 (1)</u>	<u>IOC1610-022 (2)</u>	<u>IOC1610-101 (3)</u>	<u>IOC1610-105 (4)</u>	<u>IOC1610-108 (2)</u>	<u>IOC1610-201 (11)</u>	<u>IOC1610-301 (10)</u>	<u>IOC1610-401 (4)</u>	<u>IOC1610-402 (2)</u>
<u>IOC1610-403 (1)</u>	<u>IOC1610-404 (1)</u>	<u>IOC1610-405 (1)</u>	<u>IOC1610-406 (3)</u>	IOC1611-002 (3)	<u>IOC1611-101 (6)</u>	<u>IOC1611-103 (3)</u>	<u>IOC1611-401 (1)</u>	<u>IOC1611-403 (1)</u>	<u>IOC1611-404 (1)</u>	<u>IOC1611-405 (1)</u>	<u>IOC1611-407 (1)</u>
<u>IOC1611-408 (1)</u>	<u>IOC1611-410 (2)</u>	<u>IOC1611-423 (1)</u>	<u>IOC1611-424 (1)</u>	<u>IOC1611-425 (1)</u>	<u>IOC1611-426 (1)</u>	<u>IOC1611-427 (10)</u>	<u>IOC1611-428 (6)</u>	<u>IOC1611-429 (2)</u>	<u>IOC1611-430 (2)</u>	<u>IOC1611-433 (2)</u>	<u>IOC1611-435 (1)</u>
<u>IOC1611-437 (1)</u>	<u>IOC1611-438 (2)</u>	<u>IOC1611-439 (2)</u>	<u>IOC1611-441 (2)</u>	<u>IOC1611-442 (2)</u>	<u>IOC1611-443 (2)</u>	<u>IOC1611-444 (3)</u>	<u>IOC1611-445 (2)</u>	<u>IOC2001-002 (1)</u>	IOC2022-001 (1)	IOC2023-002 (1)	<u>IOC2025-002 (1)</u>
IOC2026-001 (2)	<u>IOC2031-103 (1)</u>	<u>IOC2049-001 (1)</u>	<u>IOC2400-002 (1)</u>	<u>IOC2400-104 (1)</u>	<u>IOC2400-109 (2)</u>	<u>IOC2400-112 (1)</u>	<u>IOC2401-101 (4)</u>	<u>IOC2402-101 (3)</u>	<u>IOC2402-104 (2)</u>	<u>IOC2402-105 (2)</u>	<u>IOC2402-106 (2)</u>
<u>IOC2403-101 (3)</u>	<u>IOC2403-102 (3)</u>	<u>IOC2403-109 (2)</u>	<u>IOC2403-110 (2)</u>	<u>IOC2403-111 (2)</u>	<u>IOC2403-112 (3)</u>	<u>IOC2403-201 (1)</u>	<u>IOC2403-204 (3)</u>	<u>IOC2403-301 (3)</u>	<u>IOC2403-304 (1)</u>	<u>IOC2403-309 (2)</u>	<u>IOC2403-310 (2)</u>
<u>IOC2404-001 (2)</u>	<u>IOC2404-101 (2)</u>	<u>IOC2404-102 (2)</u>	<u>IOC2404-106 (2)</u>	<u>IOC2404-108 (1)</u>	<u>IOC2404-110 (2)</u>	<u>IOC2404-111 (3)</u>	<u>IOC2404-112 (1)</u>	<u>IOC2404-113 (1)</u>	<u>IOC2404-114 (1)</u>	<u>IOC2404-201 (2)</u>	<u>IOC2404-202 (2)</u>
<u>IOC2404-303 (3)</u>	<u>IOC2405-101 (3)</u>	<u>IOC2405-104 (2)</u>	<u>IOC2405-109 (1)</u>	<u>IOC2405-110 (1)</u>	<u>IOC2405-111 (1)</u>	<u>IOC2405-112 (1)</u>	<u>IOC2405-113 (1)</u>	<u>IOC2405-114 (1)</u>	<u>IOC2405-115 (1)</u>	<u>IOC2405-116 (1)</u>	<u>IOC2405-117 (1)</u>
<u>IOC2405-118 (1)</u>	<u>IOC2405-119 (4)</u>	<u>IOC2405-120 (2)</u>	<u>IOC2405-121 (3)</u>	<u>IOC2405-122 (3)</u>	<u>IOC2406-105 (2)</u>	<u>IOC2406-109 (1)</u>	<u>IOC2406-1101 (4)</u>	<u>IOC2406-111 (3)</u>	<u>IOC2406-112 (1)</u>	<u>IOC2406-116 (2)</u>	<u>IOC2406-117 (1)</u>
<u>IOC2406-118 (1)</u>	<u>IOC2406-119 (1)</u>	<u>IOC2406-120 (1)</u>	<u>IOC2406-121 (1)</u>	<u>IOC2406-122 (1)</u>	<u>IOC2406-1501 (2)</u>	<u>IOC2406-1502 (1)</u>	<u>IOC2406-1503 (2)</u>	<u>IOC2406-1504 (4)</u>	<u>IOC2406-201 (2)</u>	<u>IOC2406-301 (2)</u>	<u>IOC2406-302 (2)</u>
<u>IOC2406-304 (1)</u>	<u>IOC2406-307 (2)</u>	<u>IOC2406-401 (2)</u>	<u>IOC2406-602 (2)</u>	<u>IOC2406-701 (3)</u>	<u>IOC2406-705 (2)</u>	<u>IOC2406-708 (2)</u>	<u>IOC2406-709 (4)</u>	<u>IOC2406-710 (3)</u>	<u>IOC2406-711 (2)</u>	<u>IOC2406-901 (3)</u>	<u>IOC2407-105 (1)</u>
<u>IOC2407-301 (4)</u>	<u>IOC2407-302 (2)</u>	<u>IOC2407-303 (2)</u>	<u>IOC2407-304 (1)</u>	<u>IOC2408-101 (2)</u>	<u>IOC2408-102 (2)</u>	<u>IOC2408-104 (1)</u>	<u>IOC2408-109 (1)</u>	<u>IOC2408-110 (2)</u>	<u>IOC2408-112 (2)</u>	<u>IOC2408-114 (1)</u>	<u>IOC2408-115 (7)</u>
<u>IOC2408-117 (2)</u>	<u>IOC2408-118 (1)</u>	<u>IOC2408-119 (1)</u>	<u>IOC2408-120 (2)</u>	<u>IOC2408-201 (2)</u>	<u>IOC2408-301 (1)</u>	<u>IOC2408-303 (3)</u>	<u>IOC2408-501 (7)</u>	<u>IOC2605-501 (2)</u>	<u>IOC2607-101 (2)</u>	<u>IOC3001-102 (1)</u>	NBK-L000656 (1)
<u>nbk-1001971 (0)</u>	NBK-W000303 (1)	NBK-W001371 (0)	<u>OPI0013-001 (1)</u>	<u>OPI0105-303 (1)</u>	<u>OPI1011-102 (1)</u>	<u>OPI1013-103 (1)</u>	<u>OPI1021-101 (2)</u>	<u>OPI1021-105 (2)</u>	OPI1021-107 (1)	<u>OPI1021-109 (1)</u>	<u>OPI1021-902 (1)</u>
<u>OPI1061-202 (1)</u>	<u>OPI1128-002 (1)</u>	<u>OPI1501-101 (1)</u>	<u>OPI1601-201 (1)</u>	<u>OPI1602-202 (2)</u>	<u>OPI1605-202 (1)</u>	<u>OPI1605-601 (1)</u>	<u>OPI1605-602 (1)</u>	<u>OPI1606-101 (1)</u>	<u>OPI1606-102 (1)</u>	<u>OPI1607-002 (1)</u>	<u>OPI1607-005 (1)</u>
<u>OPI1607-006 (1)</u>	<u>OPI1607-901 (1)</u>	opi1608-003 (1)	<u>OPI1608-004 (1)</u>	<u>OPI1608-1101 (2)</u>	<u>OPI1608-1102 (1)</u>	<u>OPI1608-601 (1)</u>	OPI1608-701 (1)	<u>OPI1608-802 (1)</u>	<u>OPI1608-803 (1)</u>	<u>OPI1610-001 (1)</u>	OPI1610-201 (1)
<u>OPI1610-202 (1)</u>	OPI1610-402 (1)	<u>OPI1611-201 (1)</u>	<u>OPI1611-402 (1)</u>	<u>OPI1611-404 (1)</u>	<u>OPI1611-412 (1)</u>	<u>OPI1611-415 (1)</u>	<u>OPI2017-001 (1)</u>	<u>OPI2017-002 (1)</u>	<u>OP2022-001 (1)</u>	<u>OPI2022-003 (1)</u>	<u>OPI2025-001 (1)</u>
<u>OPI2026-002 (1)</u>	<u>OPI2049-002 (1)</u>	<u>OPI2051-002 (1)</u>	<u>OPI2077-001 (1)</u>	<u>OPI2404-001 (1)</u>	<u>OPI3001-001 (1)</u>	<u>OPI4001-001 (1)</u>	PCE-5120G2 (1)	<u>srv-ibm-01 (1)</u>	<u>STXM10 (1)</u>	Unknown (0)	Unknown (0)
<u>Unknown (0)</u>	Unknown (0)	Unknown (0)	Unknown (0)	Unknown (0)	Unknown (0)	Unknown (0)	Unknown (0)	Unknown (1)	Unknown (1)	Unknown (1)	Unknown (1)
Unknown (1)	Unknown (1)	Unknown (1)	<u>Unknown (1)</u>	Unknown (1)	Unknown (1)	<u>Unknown (1)</u>	Unknown (1)	Unknown (1)	Unknown (1)	Unknown (1)	<u>Unknown (2)</u>
VCSS2400-201 (1) VMIOC1021-501 (1)	VIOC-BACNET-01 (2) VMIOC1126-001 (18)	VI0C1021-502 (2) VMI0C1607-101 (1)	VIOC1606-001 (3) VMIOC2400-105 (34)	<u>VIOC1608-111 (1)</u>	VIOC1611-401 (1)	VIOC1611-446 (2)	VIOC2400-110 (49)	VIOC2400-201 (3)	VM-BCM08ID1 (7)	VMCSS-001 (1)	VMCSS-002 (1)
		VMOC1607-101 (1)	VMIOC2400-105 (34)	VMIOC2400-106 (14)	VMI0C2400-109 (1)	VMRH72 (1)	VMSL54 (3)	VOP10000-001 (1)	VSRV-BMITSQL-01 (1)	VSRV-SWDEV-01 (1)	WKS-L0000120569 (1)

MAINT. TEST/DE

1135	IOC1104-102	<u>10.52.0.2</u>	5064	700 days, 19:36:00	X	
1136	IOC1608-022	<u>10.52.4.13</u>	49825	701 days, 1:51:30	X	
1137	IOC1607-002	10.52.24.5	5064	701 days, 19:13:30	X	
1138	IOC2401-101	<u>10.50.0.92</u>	1026	701 days, 19:52:30	X	
1139	IOC2401-101	<u>10.50.0.92</u>	5064	701 days, 19:59:30	X	
1140	IOC2401-101	<u>10.50.0.92</u>	1025	701 days, 20:04:00	X	
1141	IOC1610-406	<u>10.52.8.7</u>	1032	701 days, 22:34:00	X	
1142	IOC1602-101	<u>10.50.20.34</u>	1041	702 days, 16:20:45	X	
1143	IOC1602-101	10.50.20.34	1038	702 days, 16:21:15	X	
1144	IOC1602-101	10.50.20.34	1040	702 days, 16:22:15	X	
1145	IOC1602-101	<u>10.50.20.34</u>	1036	702 days, 16:23:15	X	
1146	IOC2404-303	<u>10.50.0.84</u>	1026	702 days, 20:17:30	X	
1147	IOC2404-303	10.50.0.84	5064	702 days, 20:17:45	X	
1148	IOC1610-022	<u>10.52.8.5</u>	1025	702 days, 23:30:45	X	<
1149	IOC1610-108	10.52.8.4	1025	702 days, 23:39:15	X	
1150	IOC1602-101	10.50.20.34	5064	702 days, 23:45:00	X	
1151	IOC2403-102	<u>10.50.0.95</u>	1025	703 days, 1:04:00	X	
1152	IOC2406-710	<u>10.50.0.129</u>	5064	710 days, 19:15:00	X	
1153	IOC1408-001	10.50.20.160	5064	718 days, 0:30:00	X	
1154	IOC1406-001	<u>10.50.20.162</u>	1026	718 days, 0:34:45	X	
1155	IOC1406-002	<u>10.50.20.164</u>	5064	718 days, 0:36:00	X	
1156	IOC0000-015	<u>10.50.0.156</u>	5064	733 days, 19:40:30	X	
1157	IOC2405-104	<u>10.50.1.50</u>	5064	747 days, 23:34:30	X	
1158	IOC2406-710	10.50.0.129	1025	807 days, 12:06:15	X	
1159	IOC2405-119	<u>10.50.20.189</u>	33746	859 days, 0:39:45	X	
1160	IOC2403-101	<u>10.50.0.94</u>	1034	893 days, 5:29:00	X	
1161	IOC1126-003	<u>10.52.12.24</u>	5064	903 days, 22:44:15	X	
1162	IOC2403-101	<u>10.50.0.94</u>	5064	1011 days, 7:26:45	X	
1163	<u>IOC2400-002</u>	10.50.0.65	5064	1034 days, 17:13:15	X	
1164	IOC2405-119	<u>10.50.20.189</u>	5064	1034 days, 17:52:15	X	
1165	IOC2405-122	<u>10.52.44.16</u>	1025	1038 days, 14:20:00	X	
1166	IOC2405-122	<u>10.52.44.16</u>	5064	1038 days, 14:20:00	X	
1167	IOC2405-121	10.52.43.220	5064	1038 days, 14:33:15	X	
1168	IOC2405-121	10.52.43.220	1026	1038 days, 14:33:45	X	
1169	IOC2405-101	<u>10.50.0.86</u>	1025	1039 days, 17:10:45	X	
1170	IOC2405-101	<u>10.50.0.86</u>	5064	1039 days, 17:10:45	X	
1171	<u>IOC2404-111</u>	<u>10.50.0.91</u>	1025	1052 days, 15:34:15	X	

Variable

The potential to catch errors early—misnamed Process Variables,

failed applications, failed hosts,

Displaying 1 - 25 of 343926 detected PVs

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Index	PV Name	Requests (Tot.)	Requests (Non GW)	Last	Server	Port	Lost
1	SMTR1607-7-I21-03:veloBase	11534	54	OPI1607-901	IOC1607-008	<u>36398</u>	
2	PFIL1607-5-I10-01:InPosition	161	1	VMSL54	VIOC2400-110	40361	
3	dxp1606-I10-04:dxp3:LL170Name	52555	79	OPI1606-101	IOC1606-017	<u>5064</u>	** LOST **
4	SMTR1607-5-I10-17:servo:pid:integrationSumLimit	50263	40		IOC1607-007	<u>58979</u>	
5	dxp1606-I10-32:dxp22:LL174Name	30124	211	OPI1606-101	IOC1606-017	<u>5064</u>	
6	SMTR1601-1-R10-59:encTarget	18715	2		IOC1601-102	<u>32831</u>	
7	SMTR1601-1-R10-56:cosineOn	19382	2		IOC1601-102	<u>32831</u>	
8	CCG0004-01:vac:raw	23038	2		VIOC2400-110	<u>44281</u>	
9	BID1411-03:A:osc	33542	116	OPI1021-101			
10	BMIT-ID:WBT:status:test	83606	3777	OPI1128-001	VMIOC1126-001	<u>36661</u>	
11	SMTR1608-5-B10-09:velo:fbk	16286	4	EPICSGW-648-2	IOC1608-021	<u>32848</u>	
12	dxp1607-B21-04:dxp3:LL153Val	22717	766	OPI1607-003	OPI1607-006	<u>5064</u>	
13	IOP1302-03:reset	22106	2		IOC2401-101	<u>5064</u>	
14	SMTR1601-1-R10-63:debugLevel	19346	2		IOC1601-102	<u>32831</u>	
15	dxp1606-I10-32:dxp3:LL174Name	39707	227	OPI1606-101	IOC1606-017	<u>5064</u>	
16	SMTR1605-5-B20-01:vel:rps:fbk	18655	2		IOC1104-104	<u>5064</u>	
17	WIG1405-01:lc2:setAddress	29275	410	OPI1021-101	IOC2406-1504	<u>4159</u>	
18	CH1608-2-I10-01:temp:fbk	40128	3	EPICSGW-648-2			
19	IOP1409-B20-01	55763	37				
20	IOP1409-B20-02	28027	79	WKS-L0000120675	VIOC2400-110	<u>58967</u>	
21	IOP1409-B20-03	29334	73	WKS-L0000120675	VIOC2400-110	<u>58967</u>	
22	IOP1409-B20-04	27758	79	WKS-L0000120675	VIOC2400-110	<u>58967</u>	
23	IOP1409-B20-05	27761	79	WKS-L0000120675	VIOC2400-110	<u>58967</u>	
24	SMTR1607-5-I21-20:changeTarget	48662	39		IOC1607-008	<u>36398</u>	
25	IOC:m102:MarkerStop	32549	631	IOC1610-301	IOC1610-301	<u>61348</u>	

Displaying 1 - 25 of 598 Detected Hosts

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	15 <u>dxp1606-l10-32:dxp3:LL174Name</u>	39707	227	OPI1606-101	<u>IOC1606-017</u>	<u>5064</u>				
	SMTR1605-5-B20-01:vel:rps:fbk 17 WIG1405-01:lc2:setAddress	18655 29275	2 410	OPI1021-101	IOC1104-104 IOC2406-1504	<u>5064</u> <u>4159</u>	Index	<u>Name</u>	IP Addr	EPICS GW
	18 <u>CH1608-2-I10-01:temp:fbk</u>	40128	3 37	EPICSGW-648-2			1	BPML1608-301	10.52.28.4	False
	19 IOP1409-B20-01 20 IOP1409-B20-02	55763 28027	79	WKS-L0000120675	<u>VIOC2400-110</u>	<u>58967</u>	2	BPML2401-101	10.50.0.37	False
	21 IOP1409-B20-03 22 IOP1409-B20-04	29334 27758	73 79	WKS-L0000120675 WKS-L0000120675	VIOC2400-110 VIOC2400-110	<u>58967</u> <u>58967</u>	3	BPML2401-102	10.50.0.38	False
	23 <u>IOP1409-B20-05</u>	27761	79	WKS-L0000120675	VIOC2400-110	<u>58967</u>	4	BPML2401-103	10.50.0.39	False
	24 SMTR1607-5-I21-20:changeTarget 25 IOC:m102:MarkerStop	48662 32549	39 631	IOC1610-301	IOC1607-008 IOC1610-301	<u>36398</u> <u>61348</u>	5	BPML2401-104	10.50.0.40	False
~	<< DREV NEVT >>						6	BPML2403-101	10.50.20.143	False
							7	BPML2403-102	10.50.0.41	False
						1	8	BPML2403-103	10.50.0.42	False
							9	BPML2403-104	10.50.0.43	False
							10	BPML2403-105	10.50.0.44	False
					7		11	BPML2403-106	10.50.0.68	False
							12	BPML2405-201	10.50.10.75	False
	What Have V	Ne Go	ot?				13	BPML2406-301	10.50.0.62	False
							14	BPML2406-302	10.50.0.6	False
					/		15	BPML2406-303	10.50.0.14	False
	Web Pages	with.					16	BPML2408-101	10.50.20.135	False
\searrow							17	BPML2408-102	10.50.20.141	False
•	Ctature indicator	foral	lhaa				18	ccdc1608-001	10.52.7.201	False
	Status indicator		1 1105				19	CCDC1608-003	10.52.28.105	False
							20	CLS-00-01-29-06-ee-e5	10.51.20.86	False
	Known	D\/c		$\overline{}$			21	CLS-00-90-e8-29-43-7d	10.51.0.123	False
				-		_	22	CSS1021-102	10.50.20.12	False
							23	CSS2400-108	10.50.20.119	False
		***	م. ئىد م. ا				24	DEX-r05199	10.52.0.5	False
	Annlication List V		JNTIN	пе						
	Application List M Host List Duplicate	sts					25 << PRE	DMS1021-001	10.50.0.114	False
	Host Lis Duplicate	sts e PVs			Ι	Detected 40 Dup	25 << PRE	DMS1021-001	10.50.0.114	False
	Host Lis	sts e PVs				Detected 40 Dup	25 << PRE	DMS1021-001	10.50.0.114 Server 2	False
	Host Lis Duplicate	sts e PVs				-	25 << PRE	DMS1021-001 $V NEXT >>$ PVs		Ν
	Host Lis Duplicate	sts e PVs				PV Name	25 << PRE	DMS1021-001 V NEXT >> PVs Server 1	Server 2	N 0 (44281)
	Host Lis Duplicate	sts e PVs				PV Name booster:vac	25 << PRE	DMS1021-001 <u>V</u> <u>NEXT</u> >> PVS Server 1 VMIOC2400-105 (32855)	Server 2 VIOC2400-110	N 0 (44281) 0 (59594)
	Host Lis Duplicate	sts e PVs				PV Name booster:vac CV2608-1101	25 << PRE	DMS1021-001 V NEXT >> PVs Server 1 VMIOC2400-105 (32855) VMIOC2400-105 (32895)	Server 2 VIOC2400-110 VIOC2400-110	N 0 (44281) 0 (59594) 0 (48267)
	Host Lis Duplicate	sts e PVs				PV Name booster:vac CV2608-1101 FM1610-1-I00-01:Protected	25 << PRE	DMS1021-001 V NEXT >> PVs Server 1 VMIOC2400-105 (32855) VMIOC2400-105 (32895) VIOC2400-110 (39268)	Server 2 VIOC2400-110 VIOC2400-110 VIOC2400-110	N 0 (44281) 0 (59594) 0 (48267) (61387) 1
	Host Lis Duplicate	sts e PVs				PV Name booster:vac CV2608-1101 FM1610-1-I00-01:Protected IOCSR_0_Name	25 << PRE	DMS1021-001 V NEXT >> PVs Server 1 VMIOC2400-105 (32855) VMIOC2400-105 (32895) VIOC2400-110 (39268) IOC1610-301 (61348)	Server 2 VIOC2400-110 VIOC2400-110 VIOC2400-110 IOC1610-301	N 0 (44281) 0 (59594) 0 (48267) (61387) 1 (61387) 1
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PREV Idex 1 2 3 4 5 5 7 3 9 0	Host Lis Duplicate Badly name S(backZMotor):cw S(backZMotor):cw S(backZMotor):cw S(backZMotor):cw S(backZMotor):lowerSafetyLimit S(backZMotor):lowerSafetyLimit S(backZMotor):percentTravelRange: S(backZMotor):upperSafetyLimit	Sts e PVs ed PV 9 8 8 8 9 calc 9 5 8 8 8 9 17 19	S S	Last OPI1128-001 OPI1128-001 OPI1128-001 OPI1128-001 OPI1128-001 OPI1128-001 OPI1128-001 OPI1128-001 OPI1128-001 OPI1128-001 OPI1128-001 OPI1128-001 OPI1128-001 OPI1128-001 OPI1128-001		PV Name booster:vac CV2608-1101 FM1610-1-I00-01:Protected IOCSR_0_Name IOCSR_0_State IOCSR_0_Status IOCSR_0_Status IOCSR_0_Status IOCSR_0_Status IOCSR_0_Status IOCSR_0_Status IOCSR_0_Time IOCSR_rebootStatus IOCSR_rebootStatusStr IOCSR_rebootTime IOCSR_recentlyStr IOCSR_status IOCSR_status IOCSR_status IOCSR_recontlyStr IOCSR_status	25 < <pre< td=""><td>DMS1021-001 VNEXT >> PVs Server 1 VMIOC2400-105 (32855) VMIOC2400-105 (32895) VIOC2400-105 (32895) VIOC2400-110 (39268) IOC1610-301 (61348) IOC1606-505 (1025) IOC16000000000000000000000000000000000000</td><td>Server 2 VIOC2400-110 VIOC2400-110 VIOC2400-110 IOC1610-301 IOC1610-301 IOC1610-301 IOC1610-301 IOC1610-301 IOC1610-301 IOC1610-301 IOC1610-301 IOC1610-301 IOC1610-301 IOC1610-301 IOC1610-301 IOC1606-022 IOC1606-022</td><td>N 0 (44281) 0 (59594) 0 (48267) (61387) 1 (61387) 1 (7) 1 (7)</td></pre<>	DMS1021-001 VNEXT >> PVs Server 1 VMIOC2400-105 (32855) VMIOC2400-105 (32895) VIOC2400-105 (32895) VIOC2400-110 (39268) IOC1610-301 (61348) IOC1606-505 (1025) IOC16000000000000000000000000000000000000	Server 2 VIOC2400-110 VIOC2400-110 VIOC2400-110 IOC1610-301 IOC1610-301 IOC1610-301 IOC1610-301 IOC1610-301 IOC1610-301 IOC1610-301 IOC1610-301 IOC1610-301 IOC1610-301 IOC1610-301 IOC1610-301 IOC1606-022 IOC1606-022	N 0 (44281) 0 (59594) 0 (48267) (61387) 1 (61387) 1 (7)

68	<u>\$(BFF):Slide:3</u>	19	OPI1607-901
69	<u>\$(BFF):Slide:4</u>	19	OPI1607-901
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71	<u>\$(BFF):Slide:6</u>	19	OPI1607-901
72	<u>\$(BFF):Slide:7</u>	19	OPI1607-901
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74	<u>\$(BFF):Slide:9</u>	19	OPI1607-901
75	<u>\$(BFF):Slide:Current</u>	17	OPI1607-901

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MSD1606-5-11:motorType:sp	IOC1606-505 (1025)	IOC1606-022 (47524)
MSD1606-5-12:motorType:sp	IOC1606-505 (1025)	IOC1606-022 (47524)
SMTR1402-B10-01:load:absEncoder	IOC1602-101 (1036)	IOC1602-101 (1064)

IOC1606-505 (1025)

IOC1606-505 (1025)

IOC1606-505 (1025)

IOC1606-505 (1025)



IOC1606-022 (47524)

IOC1606-022 (47524)

IOC1606-022 (47524)

IOC1606-022 (47524)

Our Operating Funding Partners







\$(BFF):RunMode

\$(BFF):Slide:1

\$(BFF):Slide:2

\$(BFF):Slide:10

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Canada



OPI1607-901

OPI1607-901

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OPI1607-901



MSD1606-5-07:motorType:sp

MSD1606-5-08:motorType:sp

MSD1606-5-09:motorType:sp

MSD1606-5-10:motorType:sp



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