Lenovo ThinkSystem/System x VMware Code Recipe File (11/20/2017)

v2017 Q4

Type	Option Part Number	Marketing Name	Driver Package	Driver Name	Driver Version: VSphere 5.5(Initial release)-(U3)	Driver Version: VSphere 6.0(Initial release)-(U3)	Driver Version: VSphere 6.5(Initial release)-(U1)	Firmware Package
Lan-on-motherboard (LOM)								
	7ZT7A00544	ThinkSystem 1Gb 2-port RJ45 LOM						
	7ZT7A00544	ThinkSystem 1Gb 2-port RJ45 LOM						
	7ZT7A00545	ThinkSystem 1Gb 4-port RJ45 LOM						
	7ZT7A00546	ThinkSystem 10Gb 2-port SFP+ LOM						
	7ZT7A00546	ThinkSystem 10Gb 2-port SFP+ LOM						
	7ZT7A00547	ThinkSystem 10Gb 4-port SFP+ LOM						
	7ZT7A00548	ThinkSystem 10Gb 2-port Base-T LOM						
	7ZT7A00548	ThinkSystem 10Gb 2-port Base-T LOM						
	7ZT7A00549	ThinkSystem 10Gb 4-port Base-T LOM						
		SD530 LOM						
		SN850 LOM						
		SN550 LOM						
		ST550 LOM						
			intc-lnvgy_dd_nic_20170905-vc_vmware_x86-6	i40en (40G intel		1.4.3	1.4.3	intc-lnvgy_fw_nic_5.05-3.52-1.1767.0-a_linux_x86-64
			intc-lnvgy_dd_nic_20170905-vc_vmware_x86-6	net-i40e (40G intel	1.4.28			intc-lnvgy_fw_nic_5.05-3.52-1.1767.0-a_linux_x86-6
		X280/X480/X880 LOM						
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	elxnet (oc14)	11.2.1149.0	11.4.1179.0	11.4.1179.0	brcm-lnvgy_fw_cna_17b-oc14-11.4.1186.3-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	brcmfcoe (oc14)	11.4.1150.0	11.4.1121.0	11.4.1121.0	brcm-lnvgy_fw_cna_17b-oc14-11.4.1186.3-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	scsi-be2iscsi (oc14)	11.2.1153.2	11.4.1178.0		brcm-lnvgy_fw_cna_17b-oc14-11.4.1186.3-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	elxiscsi (oc14)			11.4.1184.0	brcm-lnvgy_fw_cna_17b-oc14-11.4.1186.3-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	ima-be2iscsi (oc14)	11.2.1153.2	11.4.1178.0		brcm-lnvgy_fw_cna_17b-oc14-11.4.1186.3-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	libelxima (oc14)			11.4.1184.0	brcm-lnvgy_fw_cna_17b-oc14-11.4.1186.3-1_linux_x86-6
		X240 LOM						
		X440 LOM						
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	elxnet (oc11)	11.2.1149.0	11.4.1179.0	11.4.1179.0	brcm-lnvgy_fw_cna_17b-oc11-11.4.1186.4-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	brcmfcoe (oc11)	11.4.1150.0	11.4.1121.0	11.4.1121.0	brcm-lnvgy_fw_cna_17b-oc11-11.4.1186.4-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	scsi-be2iscsi (oc11)	11.2.1153.2	11.4.1178.0		brcm-lnvgy_fw_cna_17b-oc11-11.4.1186.4-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	elxiscsi (oc11)			11.4.1184.0	brcm-lnvgy_fw_cna_17b-oc11-11.4.1186.4-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	ima-be2iscsi (oc11)	11.2.1153.2	11.4.1178.0		brcm-lnvgy_fw_cna_17b-oc11-11.4.1186.4-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	libelxima (oc11)			11.4.1184.0	brcm-lnvgy_fw_cna_17b-oc11-11.4.1186.4-1_linux_x86-6
		X3550 M5/X3550 M5/X3650 M5 LOM						
			brcm-lnvgy_dd_nic_20170915-vc_vmware_x86-6	net-tg3 (nx1-oldfw			4.1.0.0	brcm-lnvgy_fw_nic_nx1x-17.4.4.8-c_linux_x86-64
			brcm-lnvgy_dd_nic_20170915-vc_vmware_x86-6	ntg3 (nx1-oldfw		3.137l		brcm-lnvgy_fw_nic_nx1x-17.4.4.8-c_linux_x86-64
				in-box-NVMeSW		(inbox)	(inbox)	lnvgy_fw_nvmeswitch_00.05.05.00_anyos_noarc
Type	**Option Part Number**	**Marketing Name**	**Driver Package**	**Driver Name**	**Driver Version: VSphere 5.5(Initial release)-(U3)**	**Driver Version: VSphere 6.0(Initial release)-(U3)**	**Driver Version: VSphere 6.5(Initial release)-(U1)**	**Firmware Package**
Ethernet NIC Adapters - Broadcom/Emulex								
	00AG570	Emulex VFA5.2 2x10 GbE SFP+ PCIe Adapter						
	7ZT7A00493	Lenovo ThinkSystem OCe14104B-NX PCIe 10Gb 4-Port SFP+ Ethernet Adapter By Emulex						
	00AG540	Flex System CN4052S 2-port 10Gb Virtua Fabric Adapter						
	00AG590	Flex System CN4054S 4-port 10Gb Virtua Fabric Adapter						
	00JY800	IBM Flex System CN4052 2-port 10Gb Virtual Fabric Adapter						
	94Y5160	IBM Flex System CN4058S 8-port 10Gb Virtual Fabric Adapter						
	00D1996	Emulex VFA5 ML2 Dual Port 10GbE SFP+ Adapter						
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	elxnet (oc14)	11.2.1149.0	11.4.1179.0	11.4.1179.0	brcm-lnvgy_fw_cna_17b-oc14-11.4.1186.3-1_linux_x86-6
	01CV770	Emulex VFA5.2 ML2 2Port10GbE SFP+ Adapter w/FCoE						
	00AG560	Emulex VFA5.2 ML2 Dual Port 10GbE SFP+ Adapter						
	00AG580	Emulex VFA5.2 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW						
	01CV780	Flex System CN4052S 2-port 10Gb Virtua Fabric Adapter Advanced						
	01CV790	Flex System CN4054S 4-port 10Gb Virtua Fabric Adapter Advanced						
	01CV780	Flex System CN4052S 2-port 10Gb Virtua Fabric Adapter Advanced						

	01CV790	Flex System CN4054S 4-port 10Gb Virtua Fabric Adapter Advanced						
	00JY830	Emulex 10 GbE Virtual Fabric Adapter 5 Plus						
	00JY820	Emulex 10 GbE Virtual Fabric Adapter 5 Standard						
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	elxnet (oc14)	11.2.1149.0	11.4.1179.0	11.4.1179.0	brcm-lnvgy_fw_cna_17b-oc14-11.4.1186.3-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	brcmfcoe (oc14)	11.4.1150.0	11.4.1121.0	11.4.1121.0	brcm-lnvgy_fw_cna_17b-oc14-11.4.1186.3-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	scsi-be2iscsi (oc14)	11.2.1153.2	11.4.1178.0		brcm-lnvgy_fw_cna_17b-oc14-11.4.1186.3-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	elxiscsi (oc14)			11.4.1184.0	brcm-lnvgy_fw_cna_17b-oc14-11.4.1186.3-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	ima-be2iscsi (oc14)	11.2.1153.2	11.4.1178.0		brcm-lnvgy_fw_cna_17b-oc14-11.4.1186.3-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	libelxima (oc14)			11.4.1184.0	brcm-lnvgy_fw_cna_17b-oc14-11.4.1186.3-1_linux_x86-6
	00Y3306	IBM Flex System CN4054R 10Gb Virtual Fabric Adapter						
	90Y3554	IBM Flex System CN4054 10Gb Virtual Fabric Adapter						
	00D8540	Emulex Dual Port 10GbE SFP+ VFA III						
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	elxnet (oc11)	11.2.1149.0	11.4.1179.0	11.4.1179.0	brcm-lnvgy_fw_cna_17b-oc11-11.4.1186.4-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	brcmfcoe (oc11)	11.4.1150.0	11.4.1121.0	11.4.1121.0	brcm-lnvgy_fw_cna_17b-oc11-11.4.1186.4-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	scsi-be2iscsi (oc11)	11.2.1153.2	11.4.1178.0		brcm-lnvgy_fw_cna_17b-oc11-11.4.1186.4-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	elxiscsi (oc11)			11.4.1184.0	brcm-lnvgy_fw_cna_17b-oc11-11.4.1186.4-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	ima-be2iscsi (oc14)	11.2.1153.2	11.4.1178.0		brcm-lnvgy_fw_cna_17b-oc14-11.4.1186.3-1_linux_x86-64
			brcm-lnvgy_dd_cna_20170901b-vc_vmware_x86-6	libelxima (oc14)			11.4.1184.0	brcm-lnvgy_fw_cna_17b-oc14-11.4.1186.3-1_linux_x86-6
Type	**Option Part Number**	**Marketing Name**	**Driver Package**	**Driver Name**	**Driver Version: VSphere 5.5(Initial release)-(U3)**	**Driver Version: VSphere 6.0(Initial release)-(U3)**	**Driver Version: VSphere 6.5(Initial release)-(U1)**	**Firmware Package**
Ethernet/Infiniband NIC Adapter - Mellanox								
	7ZT7A00502	ThinkSystem Mellanox ConnectX-3 Mezz 40Gb 2-Port Ethernet Adapter						
	7ZT7A00501	ThinkSystem Mellanox ConnectX-3 Pro ML2 FDR 2-Port QSFP VPI Adapter						
	90Y3454	IBM Flex System IB6132 2-port FDR Infiniband Adapter						
	90Y3466	IBM Flex System EN4132 2-port 10Gb Ethernet Adapter						
	90Y3482	IBM Flex System EN6132 2-port 40Gb Ethernet Adapter						
	00D9690	Mellanox ConnectX- 3 10 GbE Adapte						
	00D9550	Mellanox ConnectX-3 FDR VPI IB/E Adapter						
	00FP650	Mellanox ConnectX-3 Pro ML2 2x40GbE/FDR VPI Adapter						
			mlnx-lnvgy_dd_nic_20170821-vc_vmware_x86-6	nmlx4-core (cx-3	2.3.3.1	3.15.5.5	3.15.5.5	mlnx-lnvgy_fw_nic_4.1-1.0.2.2_linux_x86-64
			mlnx-lnvgy_dd_nic_20170821-vc_vmware_x86-6	nmlx4-en (cx-3	2.3.3.1	3.15.5.5	3.15.5.5	mlnx-lnvgy_fw_nic_4.1-1.0.2.2_linux_x86-64
			mlnx-lnvgy_dd_nic_20170821-vc_vmware_x86-6	nmlx4-rdma (cx-3		3.15.5.5	3.15.5.5	mlnx-lnvgy_fw_nic_4.1-1.0.2.2_linux_x86-64
			mlnx-lnvgy_dd_nic_20170821-vc_vmware_x86-6	nmlx4-core (cx-3 Pro	2.3.3.1	3.15.5.5	3.15.5.5	mlnx-lnvgy_fw_nic_4.1-1.0.2.2_linux_x86-64
			mlnx-lnvgy_dd_nic_20170821-vc_vmware_x86-6	nmlx4-en (cx-3 Pro	2.3.3.1	3.15.5.5	3.15.5.5	mlnx-lnvgy_fw_nic_4.1-1.0.2.2_linux_x86-64
			mlnx-lnvgy_dd_nic_20170821-vc_vmware_x86-6	nmlx4-rdma (cx-3 Pro		3.15.5.5	3.15.5.5	mlnx-lnvgy_fw_nic_4.1-1.0.2.2_linux_x86-6
	00MM950	Mellanox ConnectX-4 Lx 1x40GbE QSFP+ Adapter						
	00MM960	Mellanox ConnectX-4 2x100GbE / EDR IB QSFP28 VPI Adapter						
	00KH924	Mellanox ConnectX-4 EDR IB VPI Single port x16 PCIe 3.0 HCA						
	00MN990	Mellanox ConnectX-4 Lx ML2 1x25GbE SFP28 Adapter						
	7ZT7A00500	ThinkSystem Mellanox ConnectX-4 PCIe FDR 2-Port QSFP VPI Adapter						
	01GR250	Mellanox ConnectX-4 Lx 2x25GbE PCIe Adapter						
	7ZT7A00507	ThinkSystem Mellanox ConnectX-4 Lx ML2 25Gb 2-Port SFP28 Ethernet Adapter						
	7XC7A05524	Mellanox ConnectX-4 PCIe FDR 1-Port QSFP VPI Adapter						
			mlnx-lnvgy_dd_nic_20170821-vc_vmware_x86-6	nmlx5-core (cx-4	4.5.8.8	4.15.8.8	4.16.8.8	mlnx-lnvgy_fw_nic_4.1-1.0.2.2_linux_x86-64
			mlnx-lnvgy_dd_nic_20170821-vc_vmware_x86-6	nmlx5-core (cx-4 Lx	4.5.8.8	4.15.8.8	4.16.8.8	mlnx-lnvgy_fw_nic_4.1-1.0.2.2_linux_x86-6
Type	**Option Part Number**	**Marketing Name**	**Driver Package**	**Driver Name**	**Driver Version: VSphere 5.5(Initial release)-(U3)**	**Driver Version: VSphere 6.0(Initial release)-(U3)**	**Driver Version: VSphere 6.5(Initial release)-(U1)**	**Firmware Package**
Ethernet NIC Adapter - QLogic								
	94Y5180	Broadcom Dual Port 10GbE SFP+ Adapter for IBM System x						
	44T1370	Broadcom NetXtreme Dual Port 10GbE BastT Adapter for IBM System x						
	00D2026	Broadcom NetXtreme II ML2 Dual Port 10GbaseT for IBM System x						

	00D2028	Broadcom NetXtreme II ML2 Dual Port 10GbE SFP+ for IBM System x						
			qlgc-lnvgy_dd_nic_nx2-20170912-vc_vmware_x86-6	net-bnx2x (nx2-ETH		2.713.10	2.713.10	qlgc-lnvgy_fw_nic_20.17b.08.22b_linux_x86-6
	88Y5920	IBM Flex System CN4022 2-port 10Gb Converged Adapter						
	00AG530	Flex System EN4172 2-port 10Gb Ethernet Adapter						
			qlgc-lnvgy_dd_nic_nx2-20170912-vc_vmware_x86-6	net-bnx2x (nx2-ETH		2.713.10	2.713.10	qlgc-lnvgy_fw_nic_20.17b.08.22b_linux_x86-64
			qlgc-lnvgy_dd_nic_nx2-20170912-vc_vmware_x86-6	scsi-bnx2i (nx2-iSCSI		2.713.10	2.713.10	qlgc-lnvgy_fw_nic_20.17b.08.22b_linux_x86-64
			qlgc-lnvgy_dd_nic_nx2-20170912-vc_vmware_x86-6	scsi-bnx2fc (nx2-FCoE		1.713.10	1.713.10	qlgc-lnvgy_fw_nic_20.17b.08.22b_linux_x86-6
Type	**Option Part Number**	**Marketing Name**	**Driver Package**	**Driver Name**	**Driver Version: VSphere 5.5(Initial release)-(U3)**	**Driver Version: VSphere 6.0(Initial release)-(U3)**	**Driver Version: VSphere 6.5(Initial release)-(U1)**	**Firmware Package**
Ethernet NIC Adapter - Intel								
	7ZT7A00533	ThinkSystem Intel I350-F1 PCIe 1Gb 1 Port SFP Ethernet Adapter						
	00AG500	Intel I350-F1 1xGbE Fiber Adapte						
	7ZT7A00534	ThinkSystem Intel I350-T2 PCIe 1Gb 2 Port RJ45 Ethernet Adapter						
	00AG510	Intel I350-T2 2xGbE BaseT Adapter for IBM System x						
	7ZT7A00535	ThinkSystem Intel I350-T4 PCIe 1Gb 4 Port RJ45 Ethernet Adapter						
	00AG520	Intel I350-T4 4xGbE BaseT Adapter for IBM System x						
	7ZT7A00536	ThinkSystem Intel I350-T4 ML2 1Gb 4 Port RJ45 Ethernet Adapter						
	00D1998	Intel I350-T4 ML2 Quad Port GbE Adapter for IBM System x						
	49Y4230	Intel Ethernet Dual Port Server Adapter I340-T2						
	49Y4240	Intel Ethernet Quad Port Server Adapter I340-T4						
			intc-lnvgy_dd_nic_20170905-vc_vmware_x86-6	igbn (1G intel		1.3.1	1.3.1	intc-lnvgy_fw_nic_5.05-3.52-1.1767.0-a_linux_x86-64
			intc-lnvgy_dd_nic_20170905-vc_vmware_x86-6	net-igb (1G intel)	5.3.2			intc-lnvgy_fw_nic_5.05-3.52-1.1767.0-a_linux_x86-6
	49Y7960	Intel X520-DA2 Dual Port 10GbE SFP+ Adapter for IBM System x						
	49Y7970	Intel X540-T2 Dual Port 10GBase-T Adapter for IBM System x						
	00D1994	Intel X540 ML2 Dual Port 10GbaseT Adapter for IBM System x						
	00MM850	Intel X550-T1 Single Port 10GBase-T Adapter						
	00MM860	Intel X550-T2 Dual Port 10GBase-T Adapter						
			intc-lnvgy_dd_nic_20170905-vc_vmware_x86-6	ixgben (10G intel		1.5.3	1.5.3	intc-lnvgy_fw_nic_5.05-3.52-1.1767.0-a_linux_x86-64
			intc-lnvgy_dd_nic_20170905-vc_vmware_x86-6	net-ixgbe (10G intel	4.4.1			intc-lnvgy_fw_nic_5.05-3.52-1.1767.0-a_linux_x86-6
	7ZT7A00537	Intel X710-DA2 2x10GbE SFP+ adapte						
	01DA900	Intel X710 2x10GbE SFP+ Adapter for IBM System x						
	94Y5200	Intel X710 ML2 4x10GbE SFP+ Adapter for IBM System x						
	00JY940	Intel X710-DA2 ML2 2x10GbE SFP+ adapter						
	7XC7A05523	ThinkSystem Intel XXV710-DA2 PCIe 25Gb 2-Port SFP28 Ethernet Adapter						
	7XC7A05525	Intel X710-DA4 PCIe 4x10Gb SFP+ Adapter						
	7XC7A05927	Intel X710-T4 PCIe 4x10Gb RJ45 Adapter						
			intc-lnvgy_dd_nic_20170905-vc_vmware_x86-6	i40en (40G intel		1.4.3	1.4.3	intc-lnvgy_fw_nic_5.05-3.52-1.1767.0-a_linux_x86-64
			intc-lnvgy_dd_nic_20170905-vc_vmware_x86-6	net-i40e (40G intel	1.4.28			intc-lnvgy_fw_nic_5.05-3.52-1.1767.0-a_linux_x86-6
Type	**Option Part Number**	**Marketing Name**	**Driver Package**	**Driver Name**	**Driver Version: VSphere 5.5(Initial release)-(U3)**	**Driver Version: VSphere 6.0(Initial release)-(U3)**	**Driver Version: VSphere 6.5(Initial release)-(U1)**	**Firmware Package**
Ethernet NIC Adapters - Classic Broadcom								
	7ZT7A00482	ThinkSystem Broadcom NetXtreme PCIe 1Gb 2-Port RJ45 Ethernet Adapter						
	7ZT7A00484	ThinkSystem Broadcom NetXtreme PCIe 1Gb 4-Port RJ45 Ethernet Adapter						
			brcm-lnvgy_dd_nic_20170915-vc_vmware_x86-6	net-tg3 (nx1-newfw			4.1.0.0	brcm-lnvgy_fw_nic_nx1x-20.6.4.3a-c_linux_x86-64
			brcm-lnvgy_dd_nic_20170915-vc_vmware_x86-6	ntg3 (nx1-newfw		3.137l		brcm-lnvgy_fw_nic_nx1x-20.6.4.3a-c_linux_x86-6
	49Y7900	IBM Flex System EN2024 4-port 1Gb Ethernet Adapter						
	90Y9370	Broadcom NetXtreme I Dual Port GbE Adapter						
	90Y9352	Broadcom NetXtreme I Quad Port GbE Adapter						

			brcm-lnvgy_dd_nic_20170915-vc_vmware_x86-6	net-tg3 (nx1-oldfw			4.1.0.0	brcm-lnvgy_fw_nic_nx1x-17.4.4.8-c_linux_x86-64
			brcm-lnvgy_dd_nic_20170915-vc_vmware_x86-6	ntg3 (nx1-oldfw,		3.137l		brcm-lnvgy_fw_nic_nx1x-17.4.4.8-c_linux_x86-6
	7ZT7A00496	ThinkSystem Broadcom NX-E PCIe 10Gb 2-Port Base-T Ethernet Adapter						
	7ZT7A00497	ThinkSystem Broadcom NX-E ML2 10Gb 2-Port Base-T Ethernet Adapter						
	7ZT7A00505	ThinkSystem Broadcom NX-C PCIe 25Gb 1-Port SFP28 Ethernet Adapter						
			brcm-lnvgy_dd_nic_20170915-vc_vmware_x86-6	bnxtnet (nxc/e		20.6.302.0	20.6.302	brcm-lnvgy_fw_nic_nxe-20.06.04.07_linux_x86-6

Type	Option Part Number	Marketing Name	Driver Package	Driver Name	Driver Version: VSphere 5.5(Initial release)-(U3)	Driver Version: VSphere 6.0(Initial release)-(U3)	Driver Version: VSphere 6.5(Initial release)-(U1)	Firmware Package
Fibre Channel Adapters Emulex								
	01CV830	Emulex 16Gb Gen6 FC Single-port HBA						
	01CV840	Emulex 16Gb Gen6 FC Dual-port HBA						
	7ZT7A00517	ThinkSystem Emulex LPe32000-M2-L PCIe 32Gb 1-Port SFP+ Fibre Channel Adapter						
	7ZT7A00519	ThinkSystem Emulex LPe32002-M2-L PCIe 32Gb 2-Port SFP+ Fibre Channel Adapter						
			elx-lnvgy_dd_fc_20170905b-vc_vmware_x86-6	lpfc (lp3x)	11.4.142.0	11.4.147.6	11.4.147.6	elx-lnvgy_fw_fc_17b-lp3x-11.4.168.8-1_linux_x86-6
	7ZT7A00521	ThinkSystem Emulex LPm16002B-L Mezz 16Gb 2-Port Fibre Channel Adapter						
	7ZT7A00522	ThinkSystem Emulex LPm16004B-L Mezz 16Gb 4-Port Fibre Channel Adapter						
	95Y2386	IBM Flex System FC5052 2-port 16Gb FC Adapter						
	95Y2391	IBM Flex System FC5054 4-port 16Gb FC Adapter						
	81Y1655	Emulex 16Gb FC Single-port HBA						
	81Y1662	Emulex 16Gb FC Dual-port HBA						
			elx-lnvgy_dd_fc_20170905b-vc_vmware_x86-6	lpfc (lp16)	11.4.142.0	11.4.147.6	11.4.147.6	elx-lnvgy_fw_fc_17b-lp16-11.4.168.8-1_linux_x86-6
	95Y2375	IBM Flex System FC3052 2-port 8Gb FC Adapter						
	42D0485	Emulex 8Gb FC Single-port HBA						
	42D0494	Emulex 8Gb FC Dual-port HBA						
	4XC7A08220	Emulex 8Gb FC Single-port HBA						
	4XC7A08221	Emulex 8Gb FC Dual-port HBA						
			elx-lnvgy_dd_fc_20170905b-vc_vmware_x86-6	lpfc (8gFC)	11.4.142.0	11.4.147.6	11.4.147.6	elx-lnvgy_fw_fc_17b-2.03x14-16_linux_x86-6

Type	Option Part Number	Marketing Name	Driver Package	Driver Name	Driver Version: VSphere 5.5(Initial release)-(U3)	Driver Version: VSphere 6.0(Initial release)-(U3)	Driver Version: VSphere 6.5(Initial release)-(U1)	Firmware Package
Fibre Channel Adapters - QLogic								
	01CV750	QLogic 16Gb Enhanced Gen5 FC Single port HBA						
	01CV760	QLogic 16Gb Enhanced Gen5 FC Dual port HBA						
	7ZT7A00516	ThinkSystem QLogic QLE2740 PCIe 32Gb 1-Port SFP+ Fibre Channel Adapter						
	7ZT7A00518	ThinkSystem QLogic QLE2742 PCIe 32Gb 2-Port SFP+ Fibre Channel Adapter						
	7ZT7A00520	ThinkSystem QLogic QML2692 Mezz 16Gb 2-Port Fibre Channel Adapter						
			qlgc-lnvgy_dd_fc_2.1.57.0-1_vmware_x86-6	qlnativefc (32Gfc)		2.1.57	2.1.57	qlgc-lnvgy_fw_fc_1.90.43-2690-2742.p _linux_x86-6
	00Y3337	Qlogic 16Gb FC Single-port HBA for IBM System x						
	00Y3341	Qlogic 16Gb FC Dual-port HBA for IBM System x						
			qlgc-lnvgy_dd_fc_2.1.57.0-1_vmware_x86-6	qlnativefc (16Gfc-Rack)		2.1.57	2.1.57	qlgc-lnvgy_fw_fc_266x-4.74.10.l_linux_x86-6
	42D0501	QLogic 8Gb FC Single-port HBA for IBM System x						
	42D0510	QLogic 8Gb FC Dual-port HBA for IBM System x						
			qlgc-lnvgy_dd_fc_2.1.57.0-1_vmware_x86-6	qlnativefc (8Gfc-Rack)		2.1.57	2.1.57	qlgc-lnvgy_fw_fc_8g-mb4.10.06.k_linux_x86-6
	69Y1942	IBM Flex System FC 5172 2-port 16Gb FC Adapter (Qlogic)						
			qlgc-lnvgy_dd_fc_2.1.57.0-1_vmware_x86-6	qlnativefc (8Gfc-Flex)		2.1.57	2.1.57	qlgc-lnvgy_fw_fc_4.75.07-16g-fxl_linux_x86-6
	69Y1938	IBM Flex System FC3172 2-port 8Gb FC Adapter (Qlogic)						
			qlgc-lnvgy_dd_fc_2.1.57.0-1_vmware_x86-6	qlnativefc (16Gfc-Flex)		2.1.57	2.1.57	qlgc-lnvgy_fw_fc_4.11af-8g-flex.k_linux_x86-6

Type	Option Part Number	Marketing Name	Driver Package	Driver Name	Driver Version: VSphere 5.5(Initial release)-(U3)	Driver Version: VSphere 6.0(Initial release)-(U3)	Driver Version: VSphere 6.5(Initial release)-(U1)	Firmware Package
SW RAID								
		Intel RSTe SATA Software RAID						
					Not support	Not support	Not support	
		ServeRAID C110 Software RAID						
					Not support	Not support	Not support	
Type	Option Part Number	Marketing Name	Driver Package	Driver Name	Driver Version: VSphere 5.5(Initial release)-(U3)	Driver Version: VSphere 6.0(Initial release)-(U3)	Driver Version: VSphere 6.5(Initial release)-(U1)	Firmware Package
HW RAID								
	7Y37A01082	ThinkSystem RAID 530-8i PCIe 12Gb Adapter						
			lsi-lnvgy_dd_sraidmr_20170929-vc_vmware_x86-6	lsi-mr3 (hRAID-530)	6.912.12.00	7.702.51.00	7.702.51.00	lnvgy_fw_sraidmr35_530-50.0.1-0381_linux_x86-6
			lsi-lnvgy_dd_sraidmr_20170929-vc_vmware_x86-6	lsiprovider (RAID)	500.04.V0.65	500.04.V0.65	500.04.V0.65	
	7M17A03932	ThinkSystem RAID 530-4i Flex Adapte						
	7M27A03918	ThinkSystem RAID 530-4i Flex Adapte						
	NA-StarkRAID	ThinkSystem RAID 530-8i Dense Adapter						
			lsi-lnvgy_dd_sraidmr_20170929-vc_vmware_x86-6	lsi-mr3 (hRAID-530)	6.912.12.00	7.702.51.00	7.702.51.00	lnvgy_fw_sraidmr35_530-50.0.1-0378-1_linux_x86-64
			lsi-lnvgy_dd_sraidmr_20170929-vc_vmware_x86-6	lsiprovider (RAID)	500.04.V0.65	500.04.V0.65	500.04.V0.65	
	7Y37A01083	ThinkSystem RAID 730-8i 1GB Cache PCIe 12Gb Adapter						
			lsi-lnvgy_dd_sraidmr_20170929-vc_vmware_x86-6	lsi-mr3 (hRAID-730)	6.912.12.00	7.702.51.00	7.702.51.00	lnvgy_fw_sraidmr_730-24.21.0-0016_linux_x86-6
			lsi-lnvgy_dd_sraidmr_20170929-vc_vmware_x86-6	lsiprovider (RAID)	500.04.V0.65	500.04.V0.65	500.04.V0.65	
	7Y37A01084	ThinkSystem RAID 930-8i 2GB Flash PCIe 12Gb Adapter						
	7Y37A01085	ThinkSystem RAID 930-16i 4GB Flash PCIe 12Gb Adapter						
	7Y37A01086	ThinkSystem RAID 930-24i 4GB Flash PCIe 12Gb Adapter						
	7Y37A01087	ThinkSystem RAID 930-8e 4GB Flash PCIe 12Gb Adapter						
	7M17A03933	ThinkSystem RAID 930-4i 2GB Flash Flex Adapter						
	7M27A03917	ThinkSystem RAID 930-4i 2GB Flash Flex Adapter						
			lsi-lnvgy_dd_sraidmr_20170929-vc_vmware_x86-6	lsi-mr3 (hRAID-930)	6.912.12.00	7.702.51.00	7.702.51.00	lnvgy_fw_sraidmr35_930-50.2.1-0601_linux_x86-64
			lsi-lnvgy_dd_sraidmr_20170929-vc_vmware_x86-6	lsiprovider (RAID)	500.04.V0.65	500.04.V0.65	500.04.V0.65	
	00JY194	ServeRAID M1210 SAS/SATA Controller						
	46C9114	ServeRAID M1215 SAS/SATA Controller						
		LSI SAS3004 RAID						
			lsi-lnvgy_dd_sraidmr_20170929-vc_vmware_x86-6	lsi-mr3 (hRAID-M12xx)	6.912.12.00	7.702.51.00	7.702.51.00	lnvgy_fw_sraidmr_1200-24.21.0-0016_linux_x86-64
			lsi-lnvgy_dd_sraidmr_20170929-vc_vmware_x86-6	lsiprovider (RAID)	500.04.V0.65	500.04.V0.65	500.04.V0.65	
	46C9110	ServeRAID M5210 SAS/SATA Controller						
	00AE938	ServeRAID M5225-2GB SAS/SATA Controller						
	00JX142	ServeRAID M5215 with 2GB Flash Enablement Flex System x240 M5						
			lsi-lnvgy_dd_sraidmr_20170929-vc_vmware_x86-6	lsi-mr3 (hRAID-M52xx)	6.912.12.00	7.702.51.00	7.702.51.00	lnvgy_fw_sraidmr_5200-24.21.0-0020_linux_x86-64
			lsi-lnvgy_dd_sraidmr_20170929-vc_vmware_x86-6	lsiprovider (RAID)	500.04.V0.65	500.04.V0.65	500.04.V0.65	
	81Y4478	ServeRAID M5120 SAS/SATA Controller						
	68Y8588	IBM Flex System Storage Expansion Node						
	90Y4390	ServeRAID M5115 SAS/SATA Controller for Flex System						
	44T1178	ServeRAID M5100 Series IBM Flex System Flash Kit for X6						
			lsi-lnvgy_dd_sraidmr_20170929-vc_vmware_x86-6	lsi-mr3 (hRAID-M51xx)	6.612.07.00	7.702.51.00	7.702.51.00	lnvgy_fw_sraidmr_6gb-23.34.0-0023_linux_x86-64
			lsi-lnvgy_dd_sraidmr_20170929-vc_vmware_x86-6	lsiprovider (RAID)	500.04.V0.65	500.04.V0.65	500.04.V0.65	
		LSI SAS2004 RAID - x240						
			lsi-lnvgy_dd_mpt2sas_20170830-vc_vmware_x86-6	scsi-mpt2sas (hRAID-x240)	20.00.01.00	(inbox)	(inbox)	lnvgy_fw_mpt2sas_x240-1.20.05_linux_32-64
			lsi-lnvgy_dd_sraidmr_20170929-vc_vmware_x86-6	lsiprovider (RAID)	500.04.V0.65	500.04.V0.65	500.04.V0.65	
		LSI SAS2004 RAID - x440						
			lsi-lnvgy_dd_mpt2sas_20170830-vc_vmware_x86-6	scsi-mpt2sas (hRAID-x440)	20.00.01.00	(inbox)	(inbox)	lnvgy_fw_mpt2sas_x440-1.20.06_linux_32-64
			lsi-lnvgy_dd_sraidmr_20170929-vc_vmware_x86-6	lsiprovider (RAID)	500.04.V0.65	500.04.V0.65	500.04.V0.65	
Type	Option Part Number	Marketing Name	Driver Package	Driver Name	Driver Version: VSphere 5.5(Initial release)-(U3)	Driver Version: VSphere 6.0(Initial release)-(U3)	Driver Version: VSphere 6.5(Initial release)-(U1)	Firmware Package
SAS HBA								
	7Y37A01088	ThinkSystem 430-8i SAS/SATA 12Gb HBA						
	7Y37A01089	ThinkSystem 430-16i SAS/SATA 12Gb HBA						
	7Y37A01090	ThinkSystem 430-8e SAS/SATA 12Gb HBA						
	7Y37A01091	ThinkSystem 430-16e SAS/SATA 12Gb HBA						

			lnvgy_dd_mpt35sas_20170926-vc_vmware_x86-6	lsi-msgpt35 (430 SAS HBA)		01.00.05.00	01.00.05.00	lnvgy_fw_mpt35sas_430s-3.03-06_linux_x86-64
			lnvgy_dd_mpt35sas_20170926-vc_vmware_x86-6	lsiprovider (mpt35)		500.04.V0.65	500.04.V0.65	
		ThinkSystem 430-8i SAS/SATA 12Gb Dense HBA						
			lnvgy_dd_mpt35sas_20170926-vc_vmware_x86-6	lsi-msgpt35 (430 SAS HBA)		01.00.05.00	01.00.05.00	lnvgy_fw_mpt35sas_430s-3.03-06_linux_x86-64
			lnvgy_dd_mpt35sas_20170926-vc_vmware_x86-6	lsiprovider (mpt35)		500.04.V0.65	500.04.V0.65	
	47C8675	N2215 SAS/SATA HBA						
	00AE912	N2225 SAS/SATA HBA						
	00AE916	N2226 SAS/SATA HBA						
			lsi-lnvgy_dd_mpt3sas_20170830-vc_vmware_x86-6	lsi-msgpt3 (22xx SAS HBA)	14.00.03.00	16.00.00.00	16.00.00.00	lnvgy_fw_mpt3sas_n2200-1.15-3_linux_x86-64
			lsi-lnvgy_dd_mpt3sas_20170830-vc_vmware_x86-6	lsiprovider (mpt30)	500.04.V0.65	500.04.V0.65	500.04.V0.65	
	46C9010	N2125 SAS/SATA HBA						
			lsi-lnvgy_dd_mpt2sas_20170830-vc_vmware_x86-6	scsi-mpt2sas (21xx SAS HBA)	20.00.01.00	(inbox)	(inbox)	lnvgy_fw_mpt2sas_n2125-1.20.02_linux_32-64
			lsi-lnvgy_dd_mpt2sas_20170830-vc_vmware_x86-6	lsiprovider (mpt20)	500.04.V0.65	(inbox)	(inbox)	
Type	**Option Part Number**	**Marketing Name**	**Driver Package**	**Driver Name**	**Driver Version: VSphere 5.5(Initial release)-(U3)**	**Driver Version: VSphere 6.0(Initial release)-(U3)**	**Driver Version: VSphere 6.5(Initial release)-(U1)**	**Firmware Package**
M.2 RAID								
	7Y37A01093	ThinkSystem M.2 with Mirroring Enablement Kit						
				in-box-M.2RAID		(inbox)	(inbox)	lnvgy_fw_m2raid_2.3.10.1086_anyos_noarcl
Type	**Option Part Number**	**Marketing Name**	**Driver Package**	**Driver Name**	**Driver Version: VSphere 5.5(Initial release)-(U3)**	**Driver Version: VSphere 6.0(Initial release)-(U3)**	**Driver Version: VSphere 6.5(Initial release)-(U1)**	**Firmware Package**
NVMe Switch								
	7Y37A01081	ThinkSystem 1610-4P NVMe Switch Adapter						
				in-box-NVMeSW		(inbox)	(inbox)	lnvgy_fw_nvmeswitch_00.05.05.00_anyos_noarc

Methods to update Options Firmware

1. Use VMware customized image, ToolsCenter Suite CLI, and CIM providers (https://support.lenovo.com/us/en/solutions/LNVO-VCIRG)
2. Use the Lenovo XClarity Essentials Bootable Media Creator (https://support.lenovo.com/us/en/solutions/LNVO-BOMC)
3. For Thinksystems, refer to the additional update best practices (https://lenovopress.com/lp0656-lenovo-thinksystem-firmware-and-driver-update-best-practice

Update Options Drivers

VMware provides Knowledge Base Help with recommended procedures to download, install and update drivers.

a) Summary
VMware Knowledge Base Article 2005205 (https://kb.vmware.com/kb/2005205)

b) Adding driver to ESXi Installation ISO.
VMware Knowledge Base Article 2137851 (https://kb.vmware.com/kb/2137851)

c) Installing VIB driver using "esxcli".
VMware Knowledge Base Article 2137854 (https://kb.vmware.com/kb/2137854)
Note: Lenovo suggests whereever possible to install all the updated VIB driver with single esxcli command. Format of commar
esxcli software vib install -v {uri to vib1} -v {uri to vib2} -v {uri to vib:

d) Installing VIB driver using VMware Update Manager.
VMware Knowledge Base Article 2137856 (https://kb.vmware.com/kb/2137856)

Tip: Determining which storage or network driver is actively being used on ESXi host (https://kb.vmware.com/s/article/1034674)