

MSC CP v1.0 Requirements Mapping to NIST SP 800-53 Security Controls

Most of the requirements in the Multi-Site Connectivity (MSC) Capability Package (CP) support the implementation of the security controls specified in the [National Institute of Standards and Technology \(NIST\) Special Publication 800-53 Revision 4](#) (NIST SP 800-53). This appendix is provided for customers who must demonstrate implementation of a set of NIST SP 800-53 security controls as part of their Risk Management Framework (RMF) (formerly known as Certification and Accreditation (C&A)) process for a system incorporating a MSC solution that complies with this CP.

Note that the presence of a mapping between a CP requirement and a NIST SP 800-53 security control does not necessarily indicate that the CP requirement by itself is sufficient to satisfy the security control. Instead, a mapping indicates that the CP requirement provides some degree of support to the application of the security control. Additional work outside the scope of this CP may be required to effectively implement the security control on the target system.

The security controls mapping for NIST SP 800-53 are the same for [Committee on National Security Systems Instructions \(CNSSI\) 1253](#) and do not represent a High Water Mark (HWM) since that concept does not apply to National Security Systems (NSS). Security controls selected under CNSSI 1253 will be tailored according to the individual impact levels for confidentiality, integrity, and availability and adjusted per Appendix J of CNSSI 1253.

Figure 1 - MSC CP v1.0 Requirements Mapping to NIST SP 800-53 Security Controls

CP Requirement	NIST SP 800-53 Revision 4 Security Controls
MSC-PS-1	SA-4 (6) (7), SA-12
MSC-PS-2	SA-4 (6) (7), SA-12
MSC-PS-3	SA-4 (6) (7), SA-12
MSC-PS-4	SA-4 (6) (7), SA-12
MSC-PS-5	SA-4 (6) (7), SA-12
MSC-PS-6	SC-29
MSC-PS-7	SC-29
MSC-PS-8	SC-29
MSC-PS-9	SC-29
MSC-PS-10	SC-29
MSC-PS-11	AC-4 (21), SC-3 (1), SC-7 (14) (21), SC-32
MSC-PS-12	AC-4 (21), SC-3 (1), SC-7 (14) (21), SC-32
MSC-PS-13	SC-12, SC-17
MSC-PS-14	SC-29
MSC-PS-15	SA-4 (6) (7)
MSC-PS-16	CM-1, CM-2, SA-4 (6) (7), SC-13
MSC-SR-1	AC-4 (21), SC-7 (13) (21)
MSC-SR-2	SC-13

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CP Requirement	NIST SP 800-53 Revision 4 Security Controls
MSC-SR-3	AU-8 (1a) (1b), AU-12 (1)
MSC-SR-4	AU-8 (1a) (1b), AU-12 (1)
MSC-SR-5	AC-2
MSC-SR-6	CM-6, CM-7
MSC-SR-7	AC-4, SC-7
MSC-SR-8	AC-4, SC-7, SC-32
MSC-SR-9	CA-1, PE-1
MSC-SR-10	AC-4 (21), SC-7 (14) (21), SC-32
MSC-SR-11	AC-4, SC-7
MSC-SR-12	AC-4, SC-7
MSC-SR-13	AC-4, SC-7
MSC-SR-14	AC-4
MSC-SR-15	SI-3 (2)
MSC-SR-16	AC-4, SC-7 (21), SC-8
MSC-SR-17	AC-4, SC-7 (21), SC-8
MSC-SR-18	AC-4, AC-6, SC-2, SC-7
MSC-SR-19	CM-6, CM-7
MSC-SR-20	CM-6, CM-7
MSC-SR-21	CM-6, CM-7
MSC-VG-1	SC-13
MSC-VG-2	IA-5 (5), SC-12, SC-17
MSC-VG-3	IA-5 (5), SC-12, SC-17
MSC-VG-4	IA-5 (5), SC-12, SC-17
MSC-VG-5	IA-5, SC-12
MSC-VG-6	IA-3, SC-13, SC-17
MSC-VG-7	IA-5 (2), SC-12, SC-17
MSC-VG-8	IA-5 (2), SC-17
MSC-VG-9	SC-13
MSC-VG-10	SC-13
MSC-VG-11	SC-13
MSC-VG-12	SC-13
MSC-VG-13	SC-12
MSC-VG-14	SC-12
MSC-VG-15	AC-4, SC-7
MSC-VG-16	IA-3, SC-12
MSC-VG-17	AC-3(3), IA-5, SC-12
MSC-MD-1	IA-5, SC-12, SC-13
MSC-MD-2	IA-5, SC-12, SC-13

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CP Requirement	NIST SP 800-53 Revision 4 Security Controls
MSC-MD-3	IA-5, SC-12, SC-13
MSC-MD-4	SC-12, SC-13
MSC-MD-5	SC-12, SC-13
MSC-MD-6	SC-12, SC-13
MSC-MD-7	CM-6, SC-12
MSC-MD-8	CM-6, SC-12
MSC-MD-9	CM-6, SC-8
MSC-MD-10	SC-8
MSC-MD-11	CA-1, PE-1
MSC-MD-12	SC-8
MSC-MD-13	RA-2
MSC-IR-1	SC-7, SC-8
MSC-IR-2	CM-6
MSC-IR-3	AC-4, SC-7, SC-8
MSC-IR-4	AC-3 (3), AC-4, SC-7, SC-8
MSC-IR-5	AC-4, SC-7
MSC-IR-6	AC-3 (3), AC-4, SC-7
MSC-IR-7	SC-7 (7), SC-8
MSC-OR-1	SC-7, SC-8
MSC-OR-2	AC-4, SC-7, SC-8
MSC-OR-3	AC-3 (3), AC-4, SC-7, SC-8
MSC-OR-4	AC-4, SC-7, SC-8
MSC-OR-5	AC-4, SC-7
MSC-OR-6	AC-3 (3), AC-4, SC-7
MSC-OR-7	SC-7 (7), SC-8
MSC-OR-8	CM-6, CM-7
MSC-PF-1	CM-6, CM-7, SC-43
MSC-PF-2	CM-7
MSC-PF-3	AC-4, SC-7 (5)
MSC-PF-4	AC-4, SC-7 (5)
MSC-PF-5	AC-4, SC-7 (5)
MSC-PF-6	CM-7, SC-7 (5)
MSC-PF-7	CM-7
MSC-PF-8	AC-4, SC-2, SC-7, SC-32
MSC-PF-9	CM-7, SC-7
MSC-PF-10	CM-7
MSC-PF-11	CM-7

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CP Requirement	NIST SP 800-53 Revision 4 Security Controls
MSC-PF-12	CM-7
MSC-PF-13	AC-4, SC-7
MSC-PF-14	AC-4
MSC-PF-15	AC-4
MSC-PF-16	AC-4
MSC-PF-17	AC-4
MSC-PF-18	AC-4
MSC-PF-19	AC-4, SC-7
MSC-PF-20	AC-4, SC-7 (5)
MSC-PF-21	AC-4, CM-7
MSC-PF-22	AC-4, SC-7 (5)
MSC-PF-23	AC-4, SC-7
MSC-PF-24	AC-4, SC-7
MSC-PF-25	AC-4, SC-7
MSC-PF-26	AC-4, SC-7
MSC-PF-27	AC-4, SC-2, SC-7, SC-32
MSC-PF-28	AC-4, SC-7
MSC-PF-29	AC-4, SC-7
MSC-PF-30	AC-4, SC-7
MSC-PF-31	AC-4, SC-7 (5)
MSC-CM-1	CM-2
MSC-CM-2	AU-2, CM-6
MSC-CM-3	AU-2, AU-3, CM-6
MSC-CM-4	AU-12, CM-6
MSC-DM-1	AC-5, CM-7
MSC-DM-2	PE-3
MSC-DM-3	AC-4, SC-7, SC-32
MSC-DM-4	AC-4, SC-7, SC-32
MSC-DM-5	AC-4, SC-7, SC-32
MSC-DM-6	AC-4, SC-7, SC-32
MSC-DM-7	CM-6, CM-7, SC-43
MSC-DM-8	AC-4, SC-13
MSC-DM-9	AC-3, AC-6
MSC-DM-10	SC-13
MSC-DM-11	AC-6, IA-5, SC-12
MSC-DM-12	SC-12
MSC-DM-13	IA-5, SC-12
MSC-DM-14	AC-4, SC-7, SC-32

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CP Requirement	NIST SP 800-53 Revision 4 Security Controls
MSC-DM-15	IA-5, SC-12
MSC-DM-16	SC-12
MSC-DM-17	AC-4, SC-7, SC-32
MSC-DM-18	AU-2, AU-6, SI-4
MSC-DM-19	AU-2, AU-6, SI-4
MSC-DM-20	CM-6, SC-8 (1), SC-13 (1)
MSC-DM-21	CM-6, SC-8 (1), SC-13 (1)
MSC-DM-22	AC-1, PS-1
MSC-MR-1	SI-4
MSC-MR-2	SI-4
MSC-MR-3	SI-4
MSC-MR-4	SI-4
MSC-MR-5	SI-4
MSC-MR-6	SI-4
MSC-MR-7	CM-6, SI-4
MSC-MR-8	CM-6, SI-4
MSC-MR-9	AU-2, SI-4
MSC-MR-10	AU-2, SI-4
MSC-MR-11	AU-2, SI-4
MSC-MR-12	AU-2, SI-4
MSC-MR-13	AU-2, AU-6, SI-4
MSC-MR-14	SI-4
MSC-MR-15	SI-4
MSC-MR-16	SI-4
MSC-MR-17	CM-6, SI-4
MSC-MR-18	SI-4
MSC-MR-19	SI-4
MSC-MR-20	SI-4
MSC-MR-21	SI-4
MSC-MR-22	SI-4
MSC-MR-23	SI-4
MSC-MR-24	SI-4
MSC-MR-25	CM-6, SI-4
MSC-MR-26	CM-6, SI-4
MSC-MR-27	SI-4 (13)
MSC-MR-28	SI-4 (13)
MSC-MR-29	SI-4
MSC-MR-30	SI-4
MSC-MR-31	SI-4

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CP Requirement	NIST SP 800-53 Revision 4 Security Controls
MSC-AU-1	AU-2
MSC-AU-2	AU-2
MSC-AU-3	AU-2
MSC-AU-4	AU-2
MSC-AU-5	AU-2
MSC-AU-6	AU-2
MSC-AU-7	AU-2
MSC-AU-8	AU-2
MSC-AU-9	AU-2
MSC-AU-10	AU-2
MSC-AU-11	AU-2
MSC-AU-12	AU-2
MSC-AU-13	AU-2
MSC-AU-14	AU-2
MSC-AU-15	AU-2
MSC-AU-16	AU-3
MSC-AU-17	AU-3
MSC-AU-18	AU-3
MSC-AU-19	AU-3
MSC-AU-20	AU-3
MSC-AU-21	AU-3
MSC-AU-22	AU-3
MSC-AU-23	AU-2
MSC-AU-24	AU-2
MSC-AU-25	AU-2
MSC-AU-26	SI-4 (13)
MSC-AU-27	AU-2, AU-3, AU-11
MSC-AU-28	AU-6, SC-17
MSC-AU-29	AU-6, SC-17
MSC-AU-30	AU-1
MSC-AU-31	AU-6
MSC-KM-1	SC-7, SC-32
MSC-KM-2	SC-7, SC-32
MSC-KM-3	SC-7, SC-32
MSC-KM-4	AC-4
MSC-KM-5	AC-4
MSC-KM-6	AC-4, RA-2, SC-7
MSC-KM-7	CA-6, IA-5 (6)

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CP Requirement	NIST SP 800-53 Revision 4 Security Controls
MSC-KM-8	AC-17, IA-3, IA-5
MSC-KM-9	AC-17, IA-3, IA-5, SC-8, SC-17
MSC-KM-10	PE-1, RA-2
MSC-KM-11	RA-2
MSC-KM-12	SC-12, SC-17
MSC-KM-13	SC-17
MSC-KM-14	AC-17, IA-3, IA-5
MSC-KM-15	SC-12
MSC-KM-16	IA-5, SC-12
MSC-KM-17	SC-12
MSC-KM-18	SC-7 (21), SC-32
MSC-KM-19	AU-6, SC-17
MSC-KM-20	SC-12, SC-13
MSC-KM-21	SC-12
MSC-KM-22	SI-3
MSC-KM-23	AC-17, IA-3, IA-5, SC-8, SC-17
MSC-KM-24	SC-13
MSC-KM-25	IA-5, SC-17
MSC-KM-26	IA-5, PE-4, SC-12, SC-17
MSC-KM-27	IA-5, SC-12
MSC-KM-28	IA-5, SC-12
MSC-KM-29	SC-17
MSC-KM-30	AC-3, AC-6, IA-2, IA-3, IA-4, IA-5, SC-12, SC-17
MSC-KM-31	IA-5, SC-12, SC-17
MSC-KM-32	IA-5, SC-12, SC-17
MSC-KM-33	IA-5, SC-12, SC-17
MSC-KM-34	IA-5, SC-12
MSC-KM-35	IA-5, SC-12
MSC-KM-36	IA-5, SC-12
MSC-KM-37	IA-5, SC-12
MSC-KM-38	IA-5, SC-12
MSC-KM-39	IA-5, SC-12
MSC-KM-40	IA-5, SC-12, SC-17
MSC-KM-41	IA-5, SC-12, SC-17
MSC-KM-42	IA-5, SC-12, SC-17
MSC-KM-43	IA-5, SC-12, SC-17
MSC-KM-44	IA-5, SC-12, SC-17
MSC-KM-45	IA-5, SC-12, SC-17
MSC-KM-46	IA-5, SC-12, SC-17
MSC-KM-47	IA-5, SC-12, SC-17

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CP Requirement	NIST SP 800-53 Revision 4 Security Controls
MSC-KM-48	IA-5, SC-17
MSC-KM-49	IA-5, SC-12, SC-17
MSC-KM-50	SC-17
MSC-KM-51	SC-12
MSC-KM-52	SC-12
MSC-KM-53	SC-12
MSC-KM-54	SC-12
MSC-KM-55	SC-12
MSC-KM-56	SC-12
MSC-KM-57	IA-5, SC-12, SC-17
MSC-KM-58	IA-5, SC-12, SC-17
MSC-KM-59	IA-5, SC-12, SC-17
MSC-KM-60	SC-17
MSC-KM-61	IA-5, SC-12, SC-17
MSC-KM-62	IA-5, SC-12, SC-17
MSC-KM-63	IA-5, SC-12, SC-17
MSC-KM-64	CM-6, CM-7, IA-5, SC-12, SC-17
MSC-KM-65	IA-5, SC-12, SC-17
MSC-KM-66	IA-5, SC-12, SC-17
MSC-KM-67	SC-12
MSC-KM-68	IA-5, SC-12
MSC-KM-69	IA-5, SC-12, SC-17
MSC-KM-70	CM-6, CM-7, IA-5, SC-12, SC-17
MSC-KM-71	CM-6, CM-7, IA-5, SC-12, SC-17
MSC-KM-72	IA-5, SC-12, SC-17
MSC-KM-73	IA-5, SC-12, SC-17
MSC-KM-74	IA-5, SC-12, SC-17
MSC-KM-75	IA-5, SC-12, SC-17
MSC-KM-76	SC-12, SC-13
MSC-KM-77	SC-12
MSC-KM-78	SC-12
MSC-KM-79	SC-12
MSC-KM-80	SC-12
MSC-KM-81	SC-12
MSC-KM-82	SC-12
MSC-KM-83	SC-12
MSC-KM-84	RA-2, SC-12
MSC-KM-85	SC-12
MSC-KM-86	SC-12
MSC-KM-87	SC-12

UNCLASSIFIED

CP Requirement	NIST SP 800-53 Revision 4 Security Controls
MSC-KM-88	SC-12
MSC-KM-89	SC-12
MSC-KM-90	SC-12
MSC-KM-91	SC-12
MSC-KM-92	SC-12
MSC-KM-93	SC-12
MSC-KM-94	SC-12
MSC-KM-95	SC-12
MSC-KM-96	SC-12
MSC-KM-97	SC-12
MSC-KM-98	SC-12
MSC-GD-1	PE-1, RA-2
MSC-GD-2	PE-2
MSC-GD-3	MP-6, MP-8
MSC-GD-4	PM-11, SA-1
MSC-GD-5	CA-2 (1)
MSC-GD-6	CA-2
MSC-GD-7	CA-2
MSC-GD-8	CA-1
MSC-GD-9	CA-2
MSC-GD-10	CA-1
MSC-GD-11	CA-6
MSC-GD-12	CA-6
MSC-GD-13	AU-11
MSC-GD-14	AU-4
MSC-GD-15	AU-4 (1)
MSC-GD-16	IR-6
MSC-GD-17	AU-4
MSC-GD-18	AU-11 (1)
MSC-GD-19	AU-5
MSC-GD-20	AU-15
MSC-GD-21	IA-5 (1)
MSC-GD-22	CM-3, CM-9, SI-2
MSC-GD-23	CM-3, CM-9, SI-1
MSC-GD-24	PE-19 (1)
MSC-GD-25	CM-8
MSC-RP-1	IR-6
MSC-RP-2	IR-6

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CP Requirement	NIST SP 800-53 Revision 4 Security Controls
MSC-RP-3	IR-8
MSC-RP-4	IR-8
MSC-RP-5	IR-8
MSC-RP-6	IR-8
MSC-RP-7	IR-8
MSC-RP-8	IR-8
MSC-RP-9	IR-8
MSC-RP-10	IR-8
MSC-RP-11	IR-8
MSC-RP-12	IR-8
MSC-RP-13	IR-8
MSC-RP-14	IR-8
MSC-RP-15	IR-8
MSC-RB-1	AC-1, PS-1
MSC-RB-2	AC-5
MSC-RB-3	AT-3
MSC-RB-4	AC-5
MSC-RB-5	AC-5
MSC-RB-6	SA-18 (2)
MSC-RB-7	SI-4
MSC-RB-8	SC-12, SC-13, SC-17
MSC-RB-9	AC-5
MSC-RB-10	AC-5
MSC-RB-11	AC-3(3), IA-5, SC-12
MSC-TR-1	SA-11