Key Management Requirements Annex v2.1 Requirements Mapping to NIST SP 800-53 Security Controls

Most of the requirements in the Key Management Requirements Annex support the implementation of the security controls specified in the National Institute of Standards and Technology (NIST) Special Publication 800-53 Revision 5 (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 CSfC solution that complies with this Annex.

Note that the presence of a mapping between a CP or Annex requirement and a NIST SP 800-53 security control does not necessarily indicate that the CP or Annex requirement by itself is sufficient to satisfy the security control. Instead, a mapping indicates that the CP or Annex requirement provides some degree of support to the application of the security control. Additional work outside the scope of this Annex may be required to effectively implement the security control on the target system. The security controls mapping for NIST SP 800-53 does not represent a High-Water Mark (HWM) since that concept does not apply to National Security Systems (NSS).

Table 1 – Key Management Requirements Annex v2.1 Requirements Mapping to NIST SP 800-53 Security Controls

Annex v2.0 Requirement	Annex v2.1 Requirement	NIST SP 800-53 Revision 5 Security Controls
	KM-PS-1	SA-4 (6) (7), SR-3, SR-4, SR-5, SR-6, SR-7, SR-8, SR-10, SR-11
	KM-PS-2	SC-29
	KM-PS-3	SC-12, SC-17
KM-1	KM-1	CA-6, IA-5 (6)
KM-2	KM-2	SC-7, SC-32, CM-6
KM-3	KM-3	SC-7, SC-32, CM-6
KM-4	KM-4	SC-7 (21), SC-32, CM-7
KM-5	KM-5	AC-17, IA-3, IA-5, SC-13
KM-6	KM-6	AC-17, IA-3, IA-5, CM-7, IA-5(2)
KM-7	KM-7	AC-3, SC-12
KM-8	KM-8	AC-17, IA-3, IA-5(2), SC-8, SC-17
KM-9	KM-9	CA-6, IA-5 (6)
KM-10	KM-10	SC-12, SC-13, SC-17
KM-11	KM-11	SC-12
KM-12	KM-12	SC-12, SC-13, SC-28
KM-13	KM-13	IA-5(2), SC-17
KM-14	KM-14	SI-3
KM-15	KM-15	SC-12, SC-13, AC-3(2)
KM-16	KM-16	AC-4, RA-2, SC-7, CA-6
KM-17	KM-17	CM-6, SC-7, SC-32

Annex v2.0 Requirement	Annex v2.1 Requirement	NIST SP 800-53 Revision 5 Security Controls
KM-18	KM-18	CM-6, SC-7, SC-32
KM-19	KM-19	Withdrawn
KM-20	KM-20	AC-4
KM-21	KM-21	AC-4
KM-22	KM-22	IA-5, SC-12, SC-17
KM-46	KM-23	IA-5, AC-4, RA-2, SC-7, CA-6, SC-32
	KM-24	IA-5, AC-4, SC-12, SC-17
	KM-25	RA-2, AC-4, CA-6,
KM-23	KM-CI-1	IA-5, PE-4, SC-12, SC-17
KM-24	KM-CI-2	IA-5, SC-12
KM-25	KM-CI-3	IA-5, SC-12, SC-17
KM-26	KM-CI-4	IA-5, SC-12, SC-13, SC-17, SC-28, AC-4
KM-27	KM-CI-5	IA-5, SC-12, SC-13
KM-28	KM-CI-6	IA-5, SC-12, SC-17
KM-29	KM-CI-7	Withdrawn
KM-30	KM-CI-8	AC-3, AC-6, IA-5, SC-12, SC-17
KM-31	KM-CI-9	IA-5, SC-12, SC-17
KM-32	KM-CI-10	IA-5, SC-12, SC-17
KM-33	KM-CI-11	IA-5, SC-12, SC-17
KM-34	KM-CI-12	IA-5, SC-12, SC-17
KM-35	KM-CI-13	IA-5, SC-12, SC-17
KM-36	KM-CI-14	IA-5, SC-12, SC-17
KM-37	KM-CI-15	IA-5, SC-12, SC-17
KM-38	KM-CI-16	Withdrawn
KM-39	KM-CI-17	IA-3 (1)
KM-40	KM-CI-18	IA-5, SC-12, SC-17
KM-41	KM-CI-19	IA-5, SC-12, SC-17
KM-42	KM-CI-20	Withdrawn
KM-43	KM-CI-21	AC-3, AC-6, AT-3, IA-2, IA-3, IA-4, IA-5, SC-12, SC-17
KM-44	KM-CI-22	AC-3, AC-6, IA-2, IA-3, IA-4, IA-5, SC-12, SC-17
KM-47	KM-RK-1	IA-5, SC-12, SC-17
KM-48	KM-RK-2	IA-5, SC-12, SC-17
KM-49	KM-RK-3	IA-5, SC-12, SC-17
KM-50	KM-RK-4	IA-5, SC-12, SC-13, SC-17
	KM-RK-5	IA-5, SC-12, SC-13, SC-17

Annex v2.0 Requirement	Annex v2.1 Requirement	NIST SP 800-53 Revision 5 Security Controls
KM-51	KM-CR-1	IA-5, SC-12, SC-17
KM-52	KM-CR-2	IA-5, SC-12, SC-17
KM-53	KM-CR-3	IA-5, SC-12, SC-17
KM-54	KM-CR-4	IA-5, SC-12, SC-17
KM-55	KM-CR-5	IA-5, SC-12, SC-17
KM-56	KM-CR-6	IA-5, SC-12, SC-17
KM-57	KM-CR-7	IA-5, SC-12, SC-17
KM-58	KM-CR-8	IA-5, SC-12, SC-17
KM-59	KM-CR-9	IA-5, SC-12, SC-17
KM-60	KM-CR-10	IA-5, SC-12, SC-17
KM-61	KM-CR-11	IA-5, SC-12, SC-17
KM-62	KM-CR-12	IA-5, SC-12, SC-17
KM-63	KM-CR-13	IA-5, SC-12, SC-17
KM-64	KM-CR-14	IA-5, SC-12, SC-17
KM-65	KM-CR-15	Withdrawn
KM-66	KM-CR-16	IA-5, SC-12, SC-17
KM-67	KM-CR-17	IA-5, SC-12, SC-17
KM-68	KM-CR-18	IA-5, SC-12, SC-17
KM-69	KM-CR-19	IA-5, SC-12, SC-17
KM-70	KM-CR-20	IA-5, SC-12, SC-17
KM-71	KM-CR-21	CM-6, CM-7, IA-5, SC-12, SC-17
KM-72	KM-CR-22	IA-5, SC-12, SC-17
KM-73	KM-CR-23	IA-5, SC-12, SC-17
KM-74	KM-CR-24	IA-5, SC-12, SC-17
KM-75	KM-CR-25	IA-5, SC-12, SC-17
KM-76	KM-CR-26	Withdrawn
KM-77	KM-CR-27	CM-6, CM-7, IA-5, SC-12, SC-17
KM-78	KM-CR-28	AC-4, AC-6, CM-6, CM-7, IA-5, SC-12, SC-17
KM-79	KM-CR-29	IA-5, SC-12, SC-17
KM-80	KM-CR-30	IA-5, SC-12, SC-17
KM-81	KM-CR-31	CM-6, CM-7, IA-5, SC-12, SC-17
MA-KM-1	MA-KM-1	IA-5, SC-12, SC-13
MA-KM-2	MA-KM-2	IA-5, SC-12, SC-13
MA-KM-3	MA-KM-3	IA-5, SC-12, SC-13
MA-KM-4	MA-KM-4	IA-5, SC-12, SC-13
MA-KM-5	MA-KM-5	IA-5, SC-12, SC-13
MA-KM-6	MA-KM-6	IA-5, SC-12, SC-13
WLAN-KM-1	WLAN-KM-1	SC-12, SC-17
WLAN-KM-2	WLAN-KM-2	SC-12, SC-17

Annex v2.0 Requirement	Annex v2.1 Requirement	NIST SP 800-53 Revision 5 Security Controls
MSC-KM-1	MSC-KM-1	IA-5, SC-12, SC-13
KM-45	EG-KM-1	AC-4, IA-5, SC-12, SC-17
	EG-KM-2	AC-4, IA-5, SC-12, SC-17
	EG-KM-3	AC-4, IA-5, SC-12, SC-17
	EG-KM-4	AC-4, IA-5, SC-12, SC-17
	KM-RB-1	AC-1, PS-1
	KM-RB-2	AC-5
	KM-RB-3	AT-3
	KM-RB-4	AC-5
	KM-RB-5	IA-5, SC-12, SC-17
	KM-RB-6	AC-5
	KM-RB-7	AC-3(3), AC-5, IA-5, SC-12
	KM-RB-8	AC-3, AC-4, AC-5