

Enterprise Gray Implementation Requirements Annex v1.2.0 Mapping to NIST SP 800-53 Security Controls

Most of the requirements in the Enterprise Gray (EG) 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 an EG solution that complies with the EG Annex.

Note that the presence of a mapping between an Annex requirement and a NIST SP 800-53 security control does not necessarily indicate that the Annex requirement by itself is sufficient to satisfy the security control. Instead, a mapping indicates that the 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 – Enterprise Gray Implementation v1.2.0 Requirements Mapping to NIST SP 800-53 Revision 5 Security Controls

Annex Requirement	NIST SP 800-53 Revision 5 Security Controls
EG-FW-1	CM-7, PL-7, AC-4(21), SC-7(13)
EG-FW-2	PL-7, AC-4(21), SC-7, CM-7
EG-FW-3	PL-7, AC-4(21), SC-7, CM-7
EG-FW-4	SC-7
EG-FW-5	CM-6, SC-7(5)
EG-FW-6	AC-6(3), CM-7, AC-4, SC-13
EG-FW-7	CM-7, SC-7(21)
EG-FW-8	CM-7, CM-7(21)
EG-FW-9	AC-4, SC-7, CM-7, CM-7(21)
EG-FW-10	CM-7, SC-7
EG-FW-11	AC-4, SC-7, PL-7, AC-4(21), CM-7
EG-FW-12	AC-4, SC-7, SC-7 (5)
EG-FW-13	CM-6, SC-7(5)
EG-FW-14	CM-7, AC-5
EG-FW-15	SC-13
EG-AR-1	SC-7
EG-AR-2	SC-45 (1a) (1b), AU-12 (1)
EG-AR-3	AC-4 (21), SC-7 (13) (21), CM-6, SC-7(5)

Annex Requirement	NIST SP 800-53 Revision 5 Security Controls
EG-AR-4	SC-17, CM-7
EG-AR-5	AC-4 (21), SC-3 (1), SC-7 (14) (21), SC-32, AC-2(7)(a), AC-3(7), AC-5, AC-6(1)(3)(5), AC-18(1)(4), IA-2(1)
EG-PS-1	SA-4(6), (7)
EG-AR-25	CM-7, AC-17(3), SC-7(21)
EG-AR-26	SI-7, CM-14, SC-13
EG-AR-6	CA-2, CA-3, CA-9, PL-2
EG-AR-7	SC-13
EG-AR-8	AC-4, SC-7, SC-8
EG-AR-9	AC-19 (4), SC-7, SC-43
EG-AR-10	SC-43, SC-7, AC-19(4)
EG-FW-16	SC-29
EG-FW-17	SC-7, PM-2
EG-FW-18	SC-29
EG-FW-19	AC-4, AC-19, SC-7, SC-32
EG-FW-20	SC-7(7)
EG-FW-21	SC-7, SC-8
EG-FW-22	AC-4, SC-7
EG-FW-23	SC-7, PM-2
EG-FW-24	SC-7, PM-2
EG-FW-25	CM-6
EG-AR-11	SC-43, SC-7, AC-19(4), SA-8
EG-AR-12	<i>See CSfC Key Management Requirements Annex</i>
EG-AR-13	<i>See CSfC Key Management Requirements Annex</i>
EG-AR-14	<i>See CSfC Symmetric Key Management Requirements Annex</i>
EG-AR-15	AC-4, SC-7, SC-8
EG-PS-2	SA-4(6)(7)
EG-PS-3	SA-4(6)(7)
EG-FW-26	SC-8, SC-12, SC-13
EG-FW-27	SC-8, SC-12, SC-13
EG-FW-28	SC-8, SC-12, SC-13
EG-DR-1	AC-4, SC-7 (21), SC-8
EG-DR-2	SC-8, IA-1, IA-2, SC-7
EG-DR-3	SC-8, IA-1, IA-2
EG-DR-4	SC-8, IA-5, SI-7
EG-DR-5	SC-8, IA-5

Annex Requirement	NIST SP 800-53 Revision 5 Security Controls
EG-DR-6	SC-8, IA-5
EG-DR-7	SC-8, SC-7
EG-DR-8	SC-8, SC-7
EG-DR-9	SC-8, SC-7
EG-DR-10	SC-8, SC-7
EG-DR-11	SC-8, SC-7
EG-DR-12	SC-8, SC-7, AC-4
EG-AR-16	SC-8, AC-4, SC-7 (21)
EG-AR-17	SC-8, AC-4, SC-7 (21)
EG-AR-18	SC-8, AC-4, SC-7 (21)
EG-AR-19	SC-8, AC-4, SC-7 (21)
EG-AR-20	SC-8, AC-4, SC-7 (21)
EG-AR-21	SC-8, AC-4, SC-7 (21)
EG-AR-22	SC-13
EG-AR-23	AC-2, AC-3, IA-3, IA-11
EG-AR-24	CM-6, SC-7(5), AC-4 (21), SC-7 (13) (21), SC-22
EG-TR-1	SA-11