

SECURE CONTROLS FRAMEWORK CONFORMITY ASSESSMENT PROGRAM (SCF CAP)



SUPPLEMENTAL GUIDANCE: APPLYING RECIPROCITY FROM CYBERSECURITY MATURITY MODEL CERTIFICATION (CMMC) LEVEL 2 TO NIST CYBERSECURITY FRAMEWORK (NIST CSF) 2.0

version 1.2

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INTRODUCTION

This document is based on work by the Secure Controls Framework Council (SCF Council) specific to the:

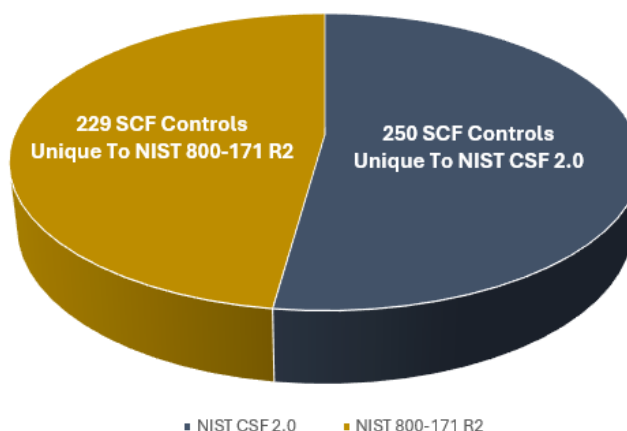
- Secure Controls Framework (SCF);¹
- Secure Controls Framework Conformity Assessment Program Body of Knowledge (SCF CAP BoK);² and
- Security & Data Privacy Assessment Standards (CDPAS).³

CONTROL RECIPROCITY INTENT

This document is tailored for Organizations Seeking Assessment (OSA) that currently maintain Cybersecurity Maturity Model Certification (CMMC) Level 2 (L2) and want to earn a NIST Cybersecurity Framework (NIST CSF) certification, taking advantage of possible control reciprocity where applicable CMMC L2 controls could address NIST CSF controls, based on scoping and applicability.

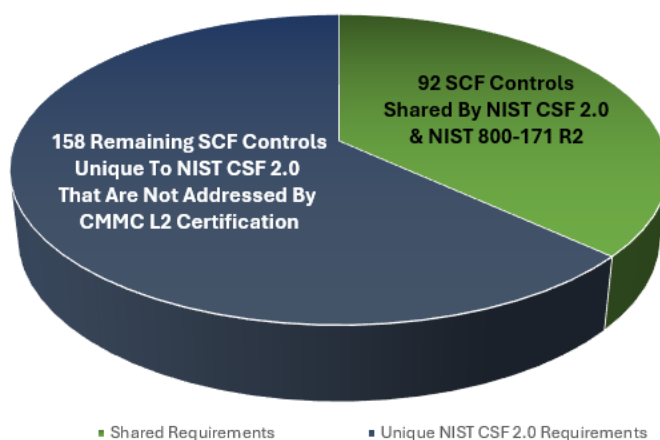
Leveraging Set Theory Relationship Mapping (STRM) used by the SCF:

- NIST SP 800-171 R2 has two-hundred twenty-nine (229) unique SCF controls; and
- NIST CSF 2.0 has two-hundred fifty (250) unique SCF controls.



Where NIST 800-171 R2 controls share scoping with NIST CSF 2.0 controls, reciprocity is acceptable. In an example where 100% reciprocity is permitted:

- NIST SP 800-171 R2 and NIST CSF 2.0 share ninety-two (92) SCF controls; and
- There are one-hundred fifty-eight (158) additional SCF controls that are unique to NIST CSF 2.0 that are not addressed by NIST SP 800-171 R2 (e.g., earning a CMMC L2 certification).



¹ SCF – <https://securecontrolsframework.com>

² SCF CAP Body of Knowledge – <https://securecontrolsframework.com/content/cap/scf-cap-bok.pdf>

³ SCF CDPAS – <https://securecontrolsframework.com/content/cdpas.pdf>

IDENTIFIED COVERAGE GAPS BETWEEN NIST CSF 2.0 AND NIST SP 800-171 R2

Key areas of coverage in NIST CSF 2.0 that are not addressed by NIST SP 800-171 R2 include:

- Cybersecurity program oversight, including general Governance, Risk Management & Compliance (GRC) practices;
- Business integration of cybersecurity (e.g., defined mission, stakeholder expectations, compliance obligations, etc.);
- Disaster recovery and business continuity practices (e.g., Recovery Time Objectives (RTOs), Recovery Point Objectives (RPOs), restoration activities, post-incident activities, etc.);
- Resource capacity management;
- A risk management program (e.g., priorities, ranking, constraints, risk tolerance, risk appetite, risk response, etc.);
- Supply chain risk management governance practices;
- Secure Software Development Practices (SSDP);
- Environmental threat protection (e.g., physical security, water damage, humidity controls, fire protection, etc.);
- Defined cybersecurity roles and responsibilities;
- Resource management to support cybersecurity initiatives;
- Measures of performance (e.g., metrics);
- Asset governance practices (e.g., hardware integrity, defined lifecycles; criticality, prioritization, etc.);
- Asset maintenance practices (e.g., preventative maintenance, reactive maintenance, etc.);
- Threat intelligence (e.g., insider threats, threat intelligence education, threat catalog, threat analysis, etc.);
- Continuing Professional Education (CPE) for cybersecurity personnel to maintain skills; and
- Incident response capabilities (e.g., chain of custody, escalation, reporting, etc.).

SCF CONFORMITY ASSESSMENT PROGRAM (SCF CAP) OVERVIEW

The goal of the Secure Controls Framework (SCF) is to provide a powerful tool and methodology that will advance how cybersecurity & data protection controls are implemented and assessed at an organization's strategic, operational and tactical layers, regardless of its size or industry.

The SCF Council established the Secure Controls Framework Conformity Assessment Program (SCF CAP) as a structure to conduct cybersecurity and data protection-related Third-Party Assessment, Attestation and Certification Services (SCF 3PAAC Services).⁴ There is a need for a scalable, cost-effective solution to obtain a company-level, third-party assessment of cybersecurity & data protection practices and the SCF CAP addresses that need.

The SCF CAP exists to leverage SCF content to provide a company-level certification through a conformity assessment process. The SCF CAP is designed to make conformity assessments more cost-effective, efficient and objective through the use of the SCF's metaframework structure and no-cost content.

As a metaframework, the SCF CAP allows for a singular certification approach to cybersecurity & data protection requirements where it:

- Utilizes an examine, interview and test assessment methodology to demonstrate conformity with multiple requirements. This approach allows the SCF CAP to scale to cover multiple requirements simultaneously (e.g., demonstrate conformity with NIST CSF, HIPAA, EU GDPR, etc.) as part of a single assessment;
- Allows an organization to specify the statutory, regulatory and contractual obligations that are applicable to establish a Minimum Security Requirements (MSR) control set; and
- Leverages leading industry assessment practices to avoid "re-inventing the wheel" for assessment methodologies.

The SCF CAP:

- Is designed to produce a deliverable Report on Conformity (ROC) with a designation that summarizes the organization's overall cybersecurity & data protection program.
- Leverages concepts established in the CDPAS.⁵
- Can be scaled to provide conformity assessments for:
 - An entire organization;
 - A specific contract, project or initiative;
 - A specific Business Unit (BU) within an organization; or
 - A specific country, or geographic region, of the organization's business operations.

⁴ SCF CAP - <https://securecontrolsframework.com/scf-conformity-assessment-program-cap/>

⁵ Cybersecurity & Data Privacy Assessment Standards (CDPAS) - <https://securecontrolsframework.com/content/cdpas.pdf>

The SCF CAP BoK provides details on the SCF Certification process, including criteria necessary to obtain an SCF Certified™ certification.⁶

THIRD-PARTY ASSESSMENT, ATTESTATION AND CERTIFICATION (3PAAC)

Third-Party Assessment, Attestation and Certification (3PAAC) addresses:

- **Assessment:** The testing or evaluation of security controls to determine the extent to which the controls are implemented correctly, operating as intended and producing the desired outcome with respect to meeting the security requirements for an information system or organization.⁷
- **Attestation:** The issue of a statement, based on a decision, that fulfillment of specified requirements has been demonstrated.⁸
- **Certification:** The process of verifying the correctness of a statement or claim and issuing a certificate as to its correctness.⁹

As part of SCF 3PAAC Services, a Third-Party Assessment Organization (SCF 3PAO) is expected to perform the following three (3) fundamental 3PAAC functions:

1. Conduct a conformity assessment of applicable cybersecurity and/or data protection controls within the OSA's assessment boundary;
2. Provide an attestation based on the findings from the conformity assessment in a Report on Conformity (ROC); and
3. Authorize the issue of a **SCF Certified™ - NIST CSF 2.0** certification, if sufficient conformity is achieved.

This document provides NIST CSF 2.0-specific conformity assessment guidance for conducting SCF 3PAAC Services, as part of the SCF CAP. An organization must achieve an assessment determination statement level of (1) Conforms or (2) Strictly Conforms to achieve status as **SCF Certified™ - NIST CSF 2.0**.

NORMATIVE REFERENCES

The following normative references contain material that must be understood and used to utilize SCF 3PAAC Services to achieve status as **SCF Certified™ - NIST CSF 2.0**:

1. NIST Cybersecurity Framework (NIST CSF) version 2;¹⁰
2. NIST IR 8477, *Mapping Relationships Between Documentary Standards, Regulations, Frameworks, and Guidelines: Developing Cybersecurity and Privacy Concept Mappings*;¹¹
3. Set Theory Relationship Mapping (STRM) – NIST CSF 2.0;¹²
4. STRM – NIST SP 800-171 R2;¹³
5. Cybersecurity & Data Protection Assessment Standards (CDPAS);¹⁴ and
6. SCF Conformity Assessment Program Body of Knowledge (SCF CAP BoK).¹⁵

INTENDED AUDIENCE

The intended audience of this assessment guide is those parties that encompass the “assessment ecosystem,” which includes:

- OSA;
- Third-Party Assessment Organizations (SCF 3PAOs);
- SCF Assessors; and

⁶ SCF CAP BoK – <https://securecontrolsframework.com/content/cap/SCF-CAP-BoK.pdf>

⁷ NIST Glossary for Assessment – <https://csrc.nist.gov/glossary/term/assessment>

⁸ NIST Glossary for Attestation – <https://csrc.nist.gov/glossary/term/attestation>

⁹ NIST Glossary for Certification – <https://csrc.nist.gov/glossary/term/certification>

¹⁰ NIST CSF 2.0 download – <https://nvlpubs.nist.gov/nistpubs/CSWP/NIST.CSWP.29.pdf>

¹¹ NIST IR 8477 – <https://csrc.nist.gov/pubs/ir/8477/final>

¹² SCF STRM for NIST CSF 2.0 – <https://securecontrolsframework.com/content/strm/scf-strm-general-nist-csf-2-0.pdf>

¹³ SCF STRM for NIST CSF 2.0 – <https://securecontrolsframework.com/content/strm/scf-strm-general-nist-800-171-r2.pdf>

¹⁴ CDPAS download – <https://securecontrolsframework.com/content/cdpas.pdf>

¹⁵ SCF CAP BoK download – <https://content.securecontrolsframework.com/scf-cap-bok.pdf>

- External Service Providers (ESP):
 - Consultants;
 - Cloud Service Providers (CSP);
 - Managed Service Providers (MSP); and
 - Managed Security Services Providers (MSSP).

The successful use of this document is predicated on an assumption that the reader has a baseline understanding of the:

- SCF's content; and
- SCF CAP's processes.

ASSESSMENT SCOPING

It is the OSA's responsibility to clearly identify CMMC L2 controls that are applicable to NIST CSF to streamline the conformity assessment process. In some situations, it may be possible to claim organization-wide reciprocity for nearly all CMMC L2 controls. However, in highly segmented CMMC environments, those CMMC L2 controls may only have narrow reciprocity (only applicable to those CMMC segments) and the organization would therefore be unable to claim organization-wide reciprocity.

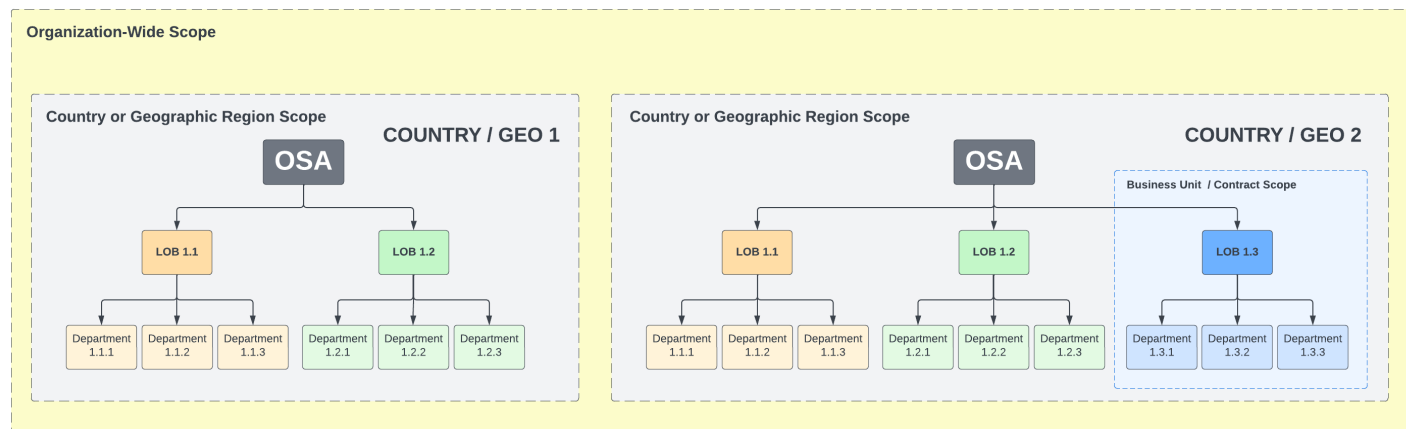
Prior to engaging with a SCF 3PAO for SCF 3PAAC Services, the OSA must specify the assessment scope. The assessment boundary demarcation can be defined as one (1) of the following four (4) scoping options:

1. Organization-wide;
2. A specific contract, project or initiative;
3. A specific Business Unit (BU) within the OSA; or
4. A specific country, or geographic region, of the organization's business operations.

To define the demarcation of the assessment boundary:

- For an organization-wide scope, it is defined by a discrete:
 - Taxpayer Identification Number (TIN);
 - Employer Identification Number (EIN);
 - Value Added Tax (VAT);
 - Dun & Bradstreet Data Universal Numbering System (DUNS); or
 - If applicable, a Commercial And Government Entity (CAGE) Code.
- For a contract, project, product or initiative, it is defined by:
 - Sufficient detail to describe the scope of the assessment boundary:
 - People;
 - Processes;
 - Technologies;
 - Data; and
 - Facilities;
 - Contract number and/or the name of the project or initiative; and
 - If applicable, a CAGE Code that is associated with the contract.
- For a BU, country or geographic region, it is defined by:
 - Sufficient detail to describe the scope of the assessment boundary:
 - People;
 - Processes;
 - Technologies;
 - Data; and
 - Facilities;
 - OSA-designated name for the BU, country(ies) or geographic region; and
 - If applicable, a CAGE Code that is associated with the BU.

A graphical representation of this assessment scoping is shown below:



The SCF Council recognizes the Unified Scoping Guide (USG) as the authoritative guidance for determining scope.¹⁶

UPDATES

Updates to the SCF CAP will be communicated via an advisory:

- Email notification (e-mail) to active SCF ecosystem stakeholders, including but not limited to:
 - SCF 3PAOs; and
 - SCF Assessors; and
- Blog posting on the SCF website for all others.

Errata will be provided to indicate:

- New content;
- Edited content; and/or
- Deleted/deprecated content.

When a new version of the SCF CAP or 3PAAC Guide & Standards is published, the previous version(s) is deprecated one hundred eighty (180) days after the release of the new version.

Additional SCF CAP-related guidance may be published to the SCF website (e.g., Frequently Asked Questions (FAQ)) without an advisory email notification or blog posting.

LIABILITY LIMITATIONS

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Submit comments on this publication to: cap@securecontrolsframework.com

¹⁶ Unified Scoping Guide (USG) - <https://unified-scoping-guide.com>

CMMC L2 TO NIST CYBERSECURITY FRAMEWORK 2.0 CONTROLS

The SCF CAP provides two (2) formats of mappings:

1. STRM formatted NIST CSF 2.0 to SCF.
2. SCF to NIST CSF (traditional SCF mappings); and

STRM is used to justify the mappings leveraged by the SCF for NIST CSF 2.0. The only difference is the formatting (e.g., perspective of the crosswalk mapping).

STRM - NIST CSF 2.0 To SCF Mappings

Annex 1 to the NIST CSF 2.0 Assessment Guide (scoped to address NIST SP 800-171 R2 control reciprocity):

- Contains the Set Theory Relationship Mapping (STRM) view of crosswalk mapping from NIST CSF 2.0 to SCF controls; and
- Is available to download from: <https://securecontrolsframework.com/content/cap/annexes-cmmc-l2-delta-nist-csf-2.xlsx>

ID	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS
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SCF To NIST CSF 2.0 MAPPINGS

Annex 2 to the NIST CSF 2.0 Assessment Guide (scoped to address NIST SP 800-171 R2 control reciprocity):

- Contains crosswalk mapping from SCF to NIST CSF 2.0 controls; and
- Is available to download from: <https://securecontrolsframework.com/content/cap/annexes-cmmc-l2-delta-nist-csf-2.xlsx>

Note: The most efficient method of addressing NIST CSF 2.0 controls is through the format provided in Annex 2. The reason for this is it provides a significant reduction in duplication (e.g., SCF controls that address multiple NIST CSF functions). This is due to the high-level nature of the NIST CSF functions, categories and sub-categories.

ID	Project Details		Project Name	Status	Priority	Risk Level	Impact Score	Effort (Hours)	Cost (\$)	Benefit (\$)	ROI (%)	Net Present Value (\$)	Internal Rate of Return (%)	Payback Period (Years)	Sensitivity Analysis	Scenario 1: Optimistic	Scenario 2: Pessimistic	Scenario 3: Base Case	Scenario 4: Worst Case	Scenario 5: Best Case	Scenario 6: Break-Even	Scenario 7: High Growth	Scenario 8: Low Growth	Scenario 9: Stable	Scenario 10: Volatile	Scenario 11: Recession	Scenario 12: Boom	Scenario 13: Inflation	Scenario 14: Deflation	Scenario 15: Stagflation	Scenario 16: Recession II	Scenario 17: Boom II	Scenario 18: Inflation II	Scenario 19: Deflation II	Scenario 20: Stagflation II	Scenario 21: Recession III	Scenario 22: Boom III	Scenario 23: Inflation III	Scenario 24: Deflation III	Scenario 25: Stagflation III	Scenario 26: Recession IV	Scenario 27: Boom IV	Scenario 28: Inflation IV	Scenario 29: Deflation IV	Scenario 30: Stagflation IV	Scenario 31: Recession V	Scenario 32: Boom V	Scenario 33: Inflation V	Scenario 34: Deflation V	Scenario 35: Stagflation V	Scenario 36: Recession VI	Scenario 37: Boom VI	Scenario 38: Inflation VI	Scenario 39: Deflation VI	Scenario 40: Stagflation VI	Scenario 41: Recession VII	Scenario 42: Boom VII	Scenario 43: Inflation VII	Scenario 44: Deflation VII	Scenario 45: Stagflation VII	Scenario 46: Recession VIII	Scenario 47: Boom VIII	Scenario 48: Inflation VIII	Scenario 49: Deflation VIII	Scenario 50: Stagflation VIII	Scenario 51: Recession IX	Scenario 52: Boom IX	Scenario 53: Inflation IX	Scenario 54: Deflation IX	Scenario 55: Stagflation IX	Scenario 56: Recession X	Scenario 57: Boom X	Scenario 58: Inflation X	Scenario 59: Deflation X	Scenario 60: Stagflation X	Scenario 61: Recession XI	Scenario 62: Boom XI	Scenario 63: Inflation XI	Scenario 64: Deflation XI	Scenario 65: Stagflation XI	Scenario 66: Recession XII	Scenario 67: Boom XII	Scenario 68: Inflation XII	Scenario 69: Deflation XII	Scenario 70: Stagflation XII	Scenario 71: Recession XIII	Scenario 72: Boom XIII	Scenario 73: Inflation XIII	Scenario 74: Deflation XIII	Scenario 75: Stagflation XIII	Scenario 76: Recession XIV	Scenario 77: Boom XIV	Scenario 78: Inflation XIV	Scenario 79: Deflation XIV	Scenario 80: Stagflation XIV	Scenario 81: Recession XV	Scenario 82: Boom XV	Scenario 83: Inflation XV	Scenario 84: Deflation XV	Scenario 85: Stagflation XV	Scenario 86: Recession XVI	Scenario 87: Boom XVI	Scenario 88: Inflation XVI	Scenario 89: Deflation XVI	Scenario 90: Stagflation XVI	Scenario 91: Recession XVII	Scenario 92: Boom XVII	Scenario 93: Inflation XVII	Scenario 94: Deflation XVII	Scenario 95: Stagflation XVII	Scenario 96: Recession XVIII	Scenario 97: Boom XVIII	Scenario 98: Inflation XVIII	Scenario 99: Deflation XVIII	Scenario 100: Stagflation XVIII	Scenario 101: Recession XIX	Scenario 102: Boom XIX	Scenario 103: Inflation XIX	Scenario 104: Deflation XIX	Scenario 105: Stagflation XIX	Scenario 106: Recession XX	Scenario 107: Boom XX	Scenario 108: Inflation XX	Scenario 109: Deflation XX	Scenario 110: Stagflation XX	Scenario 111: Recession XXI	Scenario 112: Boom XXI	Scenario 113: Inflation XXI	Scenario 114: Deflation XXI	Scenario 115: Stagflation XXI	Scenario 116: Recession XXII	Scenario 117: Boom XXII	Scenario 118: Inflation XXII	Scenario 119: Deflation XXII	Scenario 120: Stagflation XXII	Scenario 121: Recession XXIII	Scenario 122: Boom XXIII	Scenario 123: Inflation XXIII	Scenario 124: Deflation XXIII	Scenario 125: Stagflation XXIII	Scenario 126: Recession XXIV	Scenario 127: Boom XXIV	Scenario 128: Inflation XXIV	Scenario 129: Deflation XXIV	Scenario 130: Stagflation XXIV	Scenario 131: Recession XXV	Scenario 132: Boom XXV	Scenario 133: Inflation XXV	Scenario 134: Deflation XXV	Scenario 135: Stagflation XXV	Scenario 136: Recession XXVI	Scenario 137: Boom XXVI	Scenario 138: Inflation XXVI	Scenario 139: Deflation XXVI	Scenario 140: Stagflation XXVI	Scenario 141: Recession XXVII	Scenario 142: Boom XXVII	Scenario 143: Inflation XXVII	Scenario 144: Deflation XXVII	Scenario 145: Stagflation XXVII	Scenario 146: Recession XXVIII	Scenario 147: Boom XXVIII	Scenario 148: Inflation XXVIII	Scenario 149: Deflation XXVIII	Scenario 150: Stagflation XXVIII	Scenario 151: Recession XXIX	Scenario 152: Boom XXIX	Scenario 153: Inflation XXIX	Scenario 154: Deflation XXIX	Scenario 155: Stagflation XXIX	Scenario 156: Recession XXX	Scenario 157: Boom XXX	Scenario 158: Inflation XXX	Scenario 159: Deflation XXX	Scenario 160: Stagflation XXX	Scenario 161: Recession XXXI	Scenario 162: Boom XXXI	Scenario 163: Inflation XXXI	Scenario 164: Deflation XXXI	Scenario 165: Stagflation XXXI	Scenario 166: Recession XXXII	Scenario 167: Boom XXXII	Scenario 168: Inflation XXXII	Scenario 169: Deflation XXXII	Scenario 170: Stagflation XXXII	Scenario 171: Recession XXXIII	Scenario 172: Boom XXXIII	Scenario 173: Inflation XXXIII	Scenario 174: Deflation XXXIII	Scenario 175: Stagflation XXXIII	Scenario 176: Recession XXXIV	Scenario 177: Boom XXXIV	Scenario 178: Inflation XXXIV	Scenario 179: Deflation XXXIV	Scenario 180: Stagflation XXXIV	Scenario 181: Recession XXXV	Scenario 182: Boom XXXV	Scenario 183: Inflation XXXV	Scenario 184: Deflation XXXV	Scenario 185: Stagflation XXXV	Scenario 186: Recession XXXVI	Scenario 187: Boom XXXVI	Scenario 188: Inflation XXXVI	Scenario 189: Deflation XXXVI	Scenario 190: Stagflation XXXVI	Scenario 191: Recession XXXVII	Scenario 192: Boom XXXVII	Scenario 193: Inflation XXXVII	Scenario 194: Deflation XXXVII	Scenario 195: Stagflation XXXVII	Scenario 196: Recession XXXVIII	Scenario 197: Boom XXXVIII	Scenario 198: Inflation XXXVIII	Scenario 199: Deflation XXXVIII	Scenario 200: Stagflation XXXVIII	Scenario 201: Recession XXXIX	Scenario 202: Boom XXXIX	Scenario 203: Inflation XXXIX	Scenario 204: Deflation XXXIX	Scenario 205: Stagflation XXXIX	Scenario 206: Recession XL	Scenario 207: Boom XL	Scenario 208: Inflation XL	Scenario 209: Deflation XL	Scenario 210: Stagflation XL	Scenario 211: Recession XLI	Scenario 212: Boom XLI	Scenario 213: Inflation XLI	Scenario 214: Deflation XLI	Scenario 215: Stagflation XLI	Scenario 216: Recession XLII	Scenario 217: Boom XLII	Scenario 218: Inflation XLII	Scenario 219: Deflation XLII	Scenario 220: Stagflation XLII	Scenario 221: Recession XLIII	Scenario 222: Boom XLIII	Scenario 223: Inflation XLIII	Scenario 224: Deflation XLIII	Scenario 225: Stagflation XLIII	Scenario 226: Recession XLIV	Scenario 227: Boom XLIV	Scenario 228: Inflation XLIV	Scenario 229: Deflation XLIV	Scenario 230: Stagflation XLIV	Scenario 231: Recession XLV	Scenario 232: Boom XLV	Scenario 233: Inflation XLV	Scenario 234: Deflation XLV	Scenario 235: Stagflation XLV	Scenario 236: Recession XLVI	Scenario 237: Boom XLVI	Scenario 238: Inflation XLVI	Scenario 239: Deflation XLVI	Scenario 240: Stagflation XLVI	Scenario 241: Recession XLVII	Scenario 242: Boom XLVII	Scenario 243: Inflation XLVII	Scenario 244: Deflation XLVII	Scenario 245: Stagflation XLVII	Scenario 246: Recession XLVIII	Scenario 247: Boom XLVIII	Scenario 248: Inflation XLVIII	Scenario 249: Deflation XLVIII	Scenario 250: Stagflation XLVIII	Scenario 251: Recession XLIX	Scenario 252: Boom XLIX	Scenario 253: Inflation XLIX	Scenario 254: Deflation XLIX	Scenario 255: Stagflation XLIX	Scenario 256: Recession L	Scenario 257: Boom L	Scenario 258: Inflation L	Scenario 259: Deflation L	Scenario 260: Stagflation L	Scenario 261: Recession LI	Scenario 262: Boom LI	Scenario 263: Inflation LI	Scenario 264: Deflation LI	Scenario 265: Stagflation LI	Scenario 266: Recession LII	Scenario 267: Boom LII	Scenario 268: Inflation LII	Scenario 269: Deflation LII	Scenario 270: Stagflation LII	Scenario 271: Recession LIII	Scenario 272: Boom LIII	Scenario 273: Inflation LIII	Scenario 274: Deflation LIII	Scenario 275: Stagflation LIII	Scenario 276: Recession LIV	Scenario 277: Boom LIV	Scenario 278: Inflation LIV	Scenario 279: Deflation LIV	Scenario 280: Stagflation LIV	Scenario 281: Recession LV	Scenario 282: Boom LV	Scenario 283: Inflation LV	Scenario 284: Deflation LV	Scenario 285: Stagflation LV	Scenario 286: Recession LVI	Scenario 287: Boom LVI	Scenario 288: Inflation LVI	Scenario 289: Deflation LVI	Scenario 290: Stagflation LVI	Scenario 291: Recession LVII	Scenario 292: Boom LVII	Scenario 293: Inflation LVII	Scenario 294: Deflation LVII	Scenario 295: Stagflation LVII	Scenario 296: Recession LVIII	Scenario 297: Boom LVIII	Scenario 298: Inflation LVIII	Scenario 299: Deflation LVIII	Scenario 300: Stagflation LVIII	Scenario 301: Recession LIX	Scenario 302: Boom LIX	Scenario 303: Inflation LIX	Scenario 304: Deflation LIX	Scenario 305: Stagflation LIX	Scenario 306: Recession LX	Scenario 307: Boom LX	Scenario 308: Inflation LX	Scenario 309: Deflation LX	Scenario 310: Stagflation LX	Scenario 311: Recession LXI	Scenario 312: Boom LXI	Scenario 313: Inflation LXI	Scenario 314: Deflation LXI	Scenario 315: Stagflation LXI	Scenario 316: Recession LXII	Scenario 317: Boom LXII	Scenario 318: Inflation LXII	Scenario 319: Deflation LXII	Scenario 320: Stagflation LXII	Scenario 321: Recession LXIII	Scenario 322: Boom LXIII	Scenario 323: Inflation LXIII	Scenario 324: Deflation LXIII	Scenario 325: Stagflation LXIII	Scenario 326: Recession LXIV	Scenario 327: Boom LXIV	Scenario 328: Inflation LXIV	Scenario 329: Deflation LXIV	Scenario 330: Stagflation LXIV	Scenario 331: Recession LXV	Scenario 332: Boom LXV	Scenario 333: Inflation LXV	Scenario 334: Deflation LXV	Scenario 335: Stagflation LXV	Scenario 336: Recession LXVI	Scenario 337: Boom LXVI	Scenario 338: Inflation LXVI	Scenario 339: Deflation LXVI	Scenario 340: Stagflation LXVI	Scenario 341: Recession LXVII	Scenario 342: Boom LXVII	Scenario 343: Inflation LXVII	Scenario 344: Deflation LXVII	Scenario 345: Stagflation LXVII	Scenario 346: Recession LXVIII	Scenario 347: Boom LXVIII	Scenario 348: Inflation LXVIII	Scenario 349: Deflation LXVIII	Scenario 350: Stagflation LXVIII	Scenario 351: Recession LXIX	Scenario 352: Boom LXIX	Scenario 353: Inflation LXIX	Scenario 354: Deflation LXIX	Scenario 355: Stagflation LXIX	Scenario 356: Recession LXX	Scenario 357: Boom LXX	Scenario 358: Inflation LXX	Scenario 359: Deflation LXX	Scenario 360: Stagflation LXX	Scenario 361: Recession LXXI	Scenario 362: Boom LXXI	Scenario 363: Inflation LXXI	Scenario 364: Deflation LXXI	Scenario 365: Stagflation LXXI	Scenario 366: Recession LXXII	Scenario 367: Boom LXXII	Scenario 368: Inflation LXXII	Scenario 369: Deflation LXXII	Scenario 370: Stagflation LXXII	Scenario 371: Recession LXXIII	Scenario 372: Boom LXXIII	Scenario 373: Inflation LXXIII	Scenario 374: Deflation LXXIII	Scenario 375: Stagflation LXXIII	Scenario 376: Recession LXXIV	Scenario 377: Boom LXXIV	Scenario 378: Inflation LXXIV	Scenario 379: Deflation LXXIV	Scenario 380: Stagflation LXXIV	Scenario 381: Recession LXXV	Scenario 382: Boom LXXV	Scenario 383: Inflation LXXV	Scenario 384: Deflation LXXV	Scenario 385: Stagflation LXXV	Scenario 386: Recession LXXVI	Scenario 387: Boom LXXVI	Scenario 388: Inflation LXXVI	Scenario 389: Deflation LXXVI	Scenario 390: Stagflation LXXVI	Scenario 391: Recession LXXVII	Scenario 392: Boom LXXVII	Scenario 393: Inflation LXXVII	Scenario 394: Deflation LXXVII	Scenario 395: Stagflation LXXVII	Scenario 396: Recession LXXVIII	Scenario 397: Boom LXXVIII	Scenario 398: Inflation LXXVIII	Scenario 399: Deflation LXXVIII	Scenario 400: Stagflation LXXVIII	Scenario 401: Recession LXXIX	Scenario 402: Boom LXXIX	Scenario 403: Inflation LXXIX	Scenario 404: Deflation LXXIX	Scenario 405: Stagflation LXXIX	Scenario 406: Recession LXXX	Scenario 407: Boom LXXX	Scenario 408: Inflation LXXX	Scenario 409: Deflation LXXX	Scenario 410: Stagflation LXXX	Scenario 411: Recession LXXXI	Scenario 412: Boom LXXXI	Scenario 413: Inflation LXXXI	Scenario 414: Deflation LXXXI	Scenario 415: Stagflation LXXXI	Scenario 416: Recession LXXXII	Scenario 417: Boom LXXXII	Scenario 418: Inflation LXXXII	Scenario 419: Deflation LXXXII	Scenario 420: Stagflation LXXXII	Scenario 421: Recession LXXXIII	Scenario 422: Boom LXXXIII	Scenario 423: Inflation LXXXIII	Scenario 424: Deflation LXXXIII	Scenario 425: Stagflation LXXXIII	Scenario 426: Recession LXXXIV	Scenario 427: Boom LXXXIV	Scenario 428: Inflation LXXXIV	Scenario 429: Deflation LXXXIV	Scenario 430: Stagflation LXXXIV	Scenario 431: Recession LXXXV	Scenario 432: Boom LXXXV	Scenario 433: Inflation LXXXV	Scenario 434: Deflation LXXXV	Scenario 435: Stagflation LXXXV	Scenario 436: Recession LXXXVI	Scenario 437: Boom LXXXVI	Scenario 438: Inflation LXXXVI	Scenario 439: Deflation LXXXVI	Scenario 440: Stagflation LXXXVI	Scenario 441: Recession LXXXVII	Scenario 442: Boom LXXXVII	Scenario 443: Inflation LXXXVII	Scenario 444: Deflation LXXXVII	Scenario 445: Stagflation LXXXVII	Scenario 446: Recession LXXXVIII	Scenario 447: Boom LXXXVIII	Scenario 448: Inflation LXXXVIII	Scenario 449: Deflation LXXXVIII	Scenario 450: Stagflation LXXXVIII	Scenario 451: Recession LXXXIX	Scenario 452: Boom LXXXIX	Scenario 453: Inflation LXXXIX	Scenario 454: Deflation LXXXIX	Scenario 455: Stagflation LXXXIX	Scenario 456: Recession LXXXX	Scenario 457: Boom LXXXX	Scenario 458: Inflation LXXXX	Scenario 459: Deflation LXXXX	Scenario 460: Stagflation LXXXX	Scenario 461: Recession LXXXXI	Scenario 462: Boom LXXXXI	Scenario 463: Inflation LXXXXI	Scenario 464: Deflation LXXXXI	Scenario 465: Stagflation LXXXXI	Scenario 466: Recession LXXXXII	Scenario 467: Boom LXXXXII	Scenario 468: Inflation LXXXXII	Scenario 469: Deflation LXXXXII	Scenario 470: Stagflation LXXXXII	Scenario 471: Recession LXXXXIII	Scenario 472: Boom LXXXXIII	Scenario 473: Inflation LXXXXIII	Scenario 474: Deflation LXXXXIII	Scenario 475: Stagflation LXXXXIII	Scenario 476: Recession LXXXXIV	Scenario 477: Boom LXXXXIV	Scenario 478: Inflation LXXXXIV	Scenario 479: Deflation LXXXXIV	Scenario 480: Stagflation LXXXXIV	Scenario 481: Recession LXXXXV	Scenario 482: Boom LXXXXV	Scenario 483: Inflation LXXXXV	Scenario 484: Deflation LXXXXV	Scenario 485: Stagflation LXXXXV	Scenario 486: Recession LXXXXVI	Scenario 487: Boom LXXXXVI	Scenario 488: Inflation LXXXXVI	Scenario 489: Deflation LXXXXVI	Scenario 490: Stagflation LXXXXVI	Scenario 491: Recession LXXXXVII	Scenario 492: Boom LXXXXVII	Scenario 493: Inflation LXXXXVII	Scenario 494: Deflation LXXXXVII	Scenario 495: Stagflation LXXXXVII	Scenario 496: Recession LXXXXVIII	Scenario 497: Boom LXXXXVIII	Scenario 498: Inflation LXXXXVIII	Scenario 499: Deflation LXXXXVIII	Scenario 500: Stagflation LXXXXVIII	Scenario 501: Recession LXXXXIX	Scenario 502: Boom LXXXXIX	Scenario 503: Inflation LXXXXIX	Scenario 504: Deflation LXXXXIX	Scenario 505: Stagflation LXXXXIX	Scenario 506: Recession LXXXXX	Scenario 507: Boom LXXXXX	Scenario 508: Inflation LXXXXX	Scenario 509: Deflation LXXXXX	Scenario 510: Stagflation LXXXXX	Scenario 511: Recession LXXXXXI	Scenario 512: Boom LXXXXXI	Scenario 513: Inflation LXXXXXI	Scenario 514: Deflation LXXXXXI	Scenario 515: Stagflation LXXXXXI	Scenario 516: Recession LXXXXXII	Scenario 517: Boom LXXXXXII	Scenario 518: Inflation LXXXXXII	Scenario 519: Deflation LXXXXXII	Scenario 520: Stagflation LXXXXXII	Scenario 521: Recession LXXXXXIII	Scenario 522: Boom LXXXXXIII	Scenario 523: Inflation LXXXXXIII	Scenario 524: Deflation LXXXXXIII	Scenario 525: Stagflation LXXXXXIII	Scenario 526: Recession LXXXXXIV	Scenario 527: Boom LXXXXXIV	Scenario 528: Inflation LXXXXXIV	Scenario 529: Deflation LXXXXXIV	Scenario 530: Stagflation LXXXXXIV	Scenario 531: Recession LXXXXXV	Scenario 532: Boom LXXXXXV	Scenario 533: Inflation LXXXXXV	Scenario 534: Deflation LXXXXXV	Scenario 535: Stagflation LXXXXXV	Scenario 536: Recession LXXXXXVI	Scenario 537: Boom LXXXXXVI	Scenario 538: Inflation LXXXXXVI	Scenario 539: Deflation LXXXXXVI	Scenario 540: Stagflation LXXXXXVI	Scenario 541: Recession LXXXXXVII	Scenario 542: Boom LXXXXXVII	Scenario 543: Inflation LXXXXXVII	Scenario 544: Deflation LXXXXXVII	Scenario 545: Stagflation LXXXXXVII	Scenario 546: Recession LXXXXXVIII	Scenario 547: Boom LXXXXXVIII	Scenario 548: Inflation LXXXXXVIII	Scenario 549: Deflation LXXXXXVIII	Scenario 550: Stagflation LXXXXXVIII	Scenario 551: Recession LXXXXXIX	Scenario 552: Boom LXXXXXIX	Scenario 553: Inflation LXXXXXIX	Scenario 554: Deflation LXXXXXIX	Scenario 555: Stagflation LXXXXXIX	Scenario 556: Recession LXXXXXX	Scenario 557: Boom LXXXXXX	Scenario 558: Inflation LXXXXXX	Scenario 559: Deflation LXXXXXX	Scenario 560: Stagflation LXXXXXX	Scenario 561: Recession LXXXXXXI	Scenario 562: Boom LXXXXXXI	Scenario 563: Inflation LXXXXXXI	Scenario 564: Deflation LXXXXXXI	Scenario 565: Stagflation LXXXXXXI	Scenario 566: Recession LXXXXXXII	Scenario 567: Boom LXXXXXXII	Scenario 568: Inflation LXXXXXXII	Scenario 569: Deflation LXXXXXXII	Scenario 570: Stagflation LXXXXXXII	Scenario 571: Recession LXXXXXXIII	Scenario 572: Boom LXXXXXXIII	Scenario 573: Inflation LXXXXXXIII	Scenario 574: Deflation LXXXXXXIII	Scenario 575: Stagflation LXXXXXXIII	Scenario 576: Recession LXXXXXXIV	Scenario 577: Boom LXXXXXXIV	Scenario 578: Inflation LXXXXXXIV	Scenario 579: Deflation LXXXXXXIV	Scenario 580: Stagflation LXXXXXXIV	Scenario 581: Recession LXXXXXXV	Scenario 582: Boom LXXXXXXV	Scenario 583: Inflation LXXXXXXV	Scenario 584: Deflation LXXXXXXV	Scenario 585: Stagflation LXXXXXXV	Scenario 586: Recession LXXXXXXVI	Scenario 587: Boom LXXXXXXVI	Scenario 588: Inflation LXXXXXXVI	Scenario 589: Deflation LXXXXXXVI	Scenario 590: Stagflation LXXXXXXVI	Scenario 591: Recession LXXXXXXVII	Scenario 592: Boom LXXXXXXVII	Scenario 593: Inflation LXXXXXXVII	Scenario 594: Deflation LXXXXXXVII	Scenario 595: Stagflation LXXXXXXVII	Scenario 596: Recession LXXXXXXVIII	Scenario 597: Boom LXXXXXXVIII	Scenario 598: Inflation LXXXXXXVIII	Scenario 599: Deflation LXXXXXXVIII	Scenario 600: Stagflation LXXXXXXVIII	Scenario 601: Recession LXXXXXXIX	Scenario 602: Boom LXXXXXXIX	Scenario 603: Inflation LXXXXXXIX	Scenario 604: Deflation LXXXXXXIX	Scenario 605: Stagflation LXXXXXXIX	Scenario 606: Recession LXXXXXXX	Scenario 607: Boom LXXXXXXX	Scenario 608: Inflation LXXXXXXX	Scenario 609: Deflation LXXXXXXX	Scenario 610: Stagflation LXXXXXXX	Scenario 611: Recession LXXXXXXXI	Scenario 612: Boom LXXXXXXXI	Scenario 613: Inflation LXXXXXXXI	Scenario 614: Deflation LXXXXXXXI	Scenario 615: Stagflation LXXXXXXXI	Scenario 616: Recession LXXXXXXXII	Scenario 617: Boom LXXXXXXXII	Scenario 618: Inflation LXXXXXXXII	Scenario 619: Deflation LXXXXXXXII	Scenario 620: Stagflation LXXXXXXXII	Scenario 621: Recession LXXXXXXXIII	Scenario 622: Boom LXXXXXXXIII	Scenario 623: Inflation LXXXXXXXIII	Scenario 624: Deflation LXXXXXXXIII	Scenario 625: Stagflation LXXXXXXXIII	Scenario 626: Recession LXXXXXXXIV	Scenario 627: Boom LXXXXXXXIV	Scenario 628: Inflation LXXXXXXXIV	Scenario 629: Deflation LXXXXXXXIV	Scenario 630: Stagflation LXXXXXXXIV	Scenario 631: Recession LXXXXXXXV	Scenario 632: Boom LXXXXXXXV	Scenario 633: Inflation LXXXXXXXV	Scenario 634: Deflation LXXXXXXXV	Scenario 635: Stagflation LXXXXXXXV	Scenario 636: Recession LXXXXXXXVI	Scenario 637: Boom LXXXXXXXVI	Scenario 638: Inflation LXXXXXXXVI	Scenario 639: Deflation LXXXXXXXVI	Scenario 640: Stagflation LXXXXXXXVI	Scenario 641: Recession LXXXXXXXVII	Scenario 642: Boom LXXXXXXXVII	Scenario 643: Inflation LXXXXXXXVII	Scenario 644: Deflation LXXXXXXXVII	Scenario 645: Stagflation LXXXXXXXVII	Scenario 646: Recession LXXXXXXXVIII	Scenario 647: Boom LXXXXXXXVIII	Scenario 648: Inflation LXXXXXXXVIII	Scenario 649: Deflation LXXXXXXXVIII	Scenario 650: Stagflation LXXXXXXXVIII	Scenario 651: Recession LXXXXXXXIX	Scenario 652: Boom LXXXXXXXIX	Scenario 653: Inflation LXXXXXXXIX	Scenario 654: Deflation LXXXXXXXIX	Scenario 655: Stagflation LXXXXXXXIX	Scenario 656: Recession LXXXXXXX	Scenario 657: Boom LXXXXXXX	Scenario 658: Inflation LXXXXXXX	Scenario 659: Deflation LXXXXXXX	Scenario 660: Stagflation LXXXXXXX	Scenario 661: Recession LXXXXXXXI	Scenario 662: Boom LXXXXXXXI	Scenario 663: Inflation LXXXXXXXI	Scenario 664: Deflation LXXXXXXXI	Scenario 665: Stagflation LXXXXXXXI	Scenario 666: Recession LXXXXXXXII	Scenario 667: Boom LXXXXXXXII	Scenario 668: Inflation LXXXXXXXII	Scenario 669: Deflation LXXXXXXXII	Scenario 670: Stagflation LXXXXXXXII	Scenario 671: Recession LXXXXXXXIII	Scenario 672: Boom LXXXXXXXIII	Scenario 673: Inflation LXXXXXXXIII	Scenario 674: Deflation LXXXXXXXIII	Scenario 675: Stagflation LXXXXXXXIII	Scenario 676: Recession LXXXXXXXIV	Scenario
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ANNEXES

ANNEX 1: NIST CSF 2.0 TO SCF CROSSWALK MAPPING

Annex 1 to the NIST CSF 2.0 Assessment Guide:

- Contains the Set Theory Relationship Mapping (STRM) view of crosswalk mapping of NIST CSF 2.0 to SCF controls for NIST CSF 2.0 requirements that would not be possible of having reciprocity from CMMC 2.0; and
- Is available to download from: <https://securecontrolsframework.com/content/cap/annexes-cmmc-l2-delta-nist-csf-2.xlsx>

ANNEX 2: SCF TO NIST CSF 2.0 CROSSWALK MAPPING

Annex 2 to the NIST CSF 2.0 Assessment Guide:

- Contains crosswalk mapping from SCF to NIST CSF 2.0 controls for NIST CSF 2.0 requirements that would not be possible of having reciprocity from CMMC 2.0; and
- Is available to download from: <https://securecontrolsframework.com/content/cap/annexes-cmmc-l2-delta-nist-csf-2.xlsx>

Note: The most efficient method of addressing NIST CSF 2.0 controls is through the format provided in Annex 2. The reason for this is it provides a significant reduction in duplication (e.g., SCF controls that address multiple NIST CSF functions). This is due to the high-level nature of the NIST CSF functions, categories and sub-categories;

Annex 2 also contains complete listing of NIST CSF 2.0-specific Maturity Level Criteria (MLC). MLC are located on columns H through M on the Annex 2 tab of the Excel spreadsheet.

ANNEX 3: NIST CSF 2.0 ASSESSMENT OBJECTIVES (AOs)

Annex 2 to the NIST CSF 2.0 Assessment Guide:

- Contains a complete listing of SCF-based AOs for NIST CSF 2.0 requirements that would not be possible of having reciprocity from CMMC 2.0; and
- Is available to download from: <https://securecontrolsframework.com/content/cap/annexes-cmmc-l2-delta-nist-csf-2.xlsx>

Note: AOs are located on columns E on both the “Annex 1 – NIST CSF 2.0 to SCF” and “Annex 3 – NIST CSF 2.0 AOs” tabs of the Excel spreadsheet.

ANNEX 4: NIST CSF 2.0 EVIDENCE REQUEST LIST (ERL)

Annex 2 to the NIST CSF 2.0 Assessment Guide:

- Contains a complete listing of NIST CSF 2.0-specific evidence artifacts for NIST CSF 2.0 requirements that would not be possible of having reciprocity from CMMC 2.0; and
- Is available to download from: <https://securecontrolsframework.com/content/cap/annexes-cmmc-l2-delta-nist-csf-2.xlsx>

ANNEX 5: SCF CAP RASCI

Annex 5 to the NIST CSF 2.0 Assessment Guide:

- Contains a RASCI matrix for 3PAAC Services; and
- Is available to download from: <https://securecontrolsframework.com/content/cap/annexes-cmmc-l2-delta-nist-csf-2.xlsx>

ANNEX 6: 3PAAC DPIA TEMPLATE

Annex 2 to the NIST CSF 2.0 Assessment Guide:

- Contains a reference DPIA template that 3PAOs can use to assess data protection risks as part of 3PAAC Services; and
- Is available to download from: <https://securecontrolsframework.com/content/cap/annexes-cmmc-l2-delta-nist-csf-2.xlsx>

ANNEX 7: MATERIALITY THRESHOLDS

Annex 7 to the NIST CSF 2.0 Assessment Guide:

- Contains a materiality threshold calculator that an OSA can use to determine its materiality threshold; and
- Is available to download from: <https://securecontrolsframework.com/content/cap/annexes-cmmc-l2-delta-nist-csf-2.xlsx>