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TECHNICAL REPORT**

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*Title (English)*

**Societal security - Business continuity management - Guidance on supply chain continuity**

*Title (French)*

Proposed Technical Specification  or Technical Report

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Introductory note

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**Societal security – Business continuity management — Guidance on supply chain continuity**

TS 22318 -CD1- Committee Use Only

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## 1 Foreword

2 International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.  
3 Draft International Standards adopted by the technical committees are circulated to the member bodies  
4 for voting. Publication as an International Standard requires approval by at least 75 % of the member  
5 bodies casting a vote.

6 In other circumstances, particularly when there is an urgent market requirement for such documents, a  
7 technical committee may decide to publish other types of document:

- 8 • An ISO/IEC Publicly Available Specification (ISO/IEC PAS) represents an agreement between  
9 technical experts in an ISO working group and is accepted for publication if it is approved by  
10 more than 50 % of the members of the parent committee casting a vote;
- 11 • An ISO Technical Specification (ISO/TS) represents an agreement between the members of a  
12 technical committee and is accepted for publication if it is approved by 2/3 of the members of  
13 the committee casting a vote.

14 An ISO/PAS or ISO/TS is reviewed after three years in order to decide whether it will be confirmed for a  
15 further three years, revised to become an International Standard, or withdrawn. If the ISO/PAS or  
16 ISO/TS is confirmed, it is reviewed again after a further three years, at which time it must either be  
17 transformed into an International Standard or be withdrawn.

18 ISO/TS 22318 has been prepared by Technical Committee ISO/TC 292, *Security*, Working Group 5,  
19 *Resilience and continuity*.

20

## 1 Introduction

2 This Technical Specification (TS) expands the business continuity guidance given in ISO 22301 and ISO  
3 22313 on establishing appropriate levels of continuity management within an organisation's supply  
4 chain. It assumes that the organisation seeking to establish Supply Chain Continuity Management  
5 (SCCM) is already aware of the principles of Business Continuity Management and has established, or  
6 intends to implement, a Business Continuity Management System (BCMS) broadly aligned to the  
7 established standards. It also considers the implications to the organisation of suppliers of products or  
8 services which do not have adequate continuity arrangements in place.

9 This guidance is intended primarily to assist anyone buying, managing or responsible for a product or  
10 service necessary to an organisation's critical products or services to implement good business  
11 continuity practice in line with established standards.

12 Supply chain management considers the full range of activities concerned with purchase and provision  
13 of supplies or services to an organisation as a part of business-as-usual. The scope of this document is  
14 less broad in that it specifically considers the issues faced by an organisation which needs continuity of  
15 supply of products and services to protect its critical business activities or processes, and the strategies  
16 which can be used to mitigate the impact of disruption in the supply chain; this is SCCM. SCCM  
17 depends upon business impact analysis (BIA) to identify critical business activities and processes and  
18 thus is closely linked with ISO/TS 22317 which provides guidance on conducting a BIA.

19 Organisations rely on suppliers to deliver critical products or services on time and to agreed quality or  
20 standards. It is important, therefore, for an organisation, as part of its wider approach to Business  
21 Continuity Management to recognise the potential impact on its activities of a disruption within its supply  
22 chain. Failure to deliver a product or service by a supplier may trigger a business disruption event.  
23 There are however, conflicting objectives to be managed of maintaining and reducing supply chain cost  
24 (for example, by reducing cycle times and buffer stock) while managing the supply chain risk arising  
25 from single source and just in time supply approaches.

26 This TS is relevant to the supply of products and services from external suppliers and internal  
27 relationships within divisions of the same organisation, under any type of continuing supplier  
28 relationship. It also has applicability to single 'one-off' procurement events such as purchases of long  
29 lead items for a major project where failure to deliver could impact the future development of the  
30 organisation.

31 The TS recommends classifying suppliers according to their criticality, which considers the impact on  
32 the organisation of a disruption to the supplied products or services, and "supplier tier", which defines  
33 the relationship with the organisation (i.e. a tier 1 supplier has a direct contractual relationship with the  
34 organisation, while a tier 2 supplier supplies products and services to a tier 1 supplier). This TS  
35 recognises that between tiers the same supply chain continuity considerations apply. Tier 1 suppliers  
36 would be responsible for assuring their own supply chain relationships; recognising that the customer  
37 may need visibility of these relationships both to ensure there is adequate resilience in the supply chain  
38 and to take account of factors such Corporate Social Responsibility concerns which may require the  
39 customer to understand the end to end supply chain.

40 The TS focuses on identifying and managing the risks and impacts arising within an organisation from  
41 failure of a critical supplier to that organisation. The guidance, however, also has relevance to the  
42 supplier both so that they can prepare to meet the business continuity expectations of their customer  
43 who is dependent upon them, and also to consider vulnerabilities which might arise from dependence on  
44 a single customer.

45 This TS recognises that suppliers may also comply with the requirements of the ISO 28000 series of  
46 standards which establish standards for security management within the supply chain. Conformance  
47 with these standards will give organisations purchasing goods or services further confidence in the  
48 resilience of their supply chain, and potentially reducing the risk of disruption.

49 The text is mapped to the elements of business continuity management, see Figure 1.



1

Element	Clauses in ISO/TS 22318
Operational planning and control	Clause 4
Business impact analysis and risk assessment	Clause 5
Business continuity strategy	Clause 6
Establish and implement business continuity procedures	Clause 7
Exercising and testing	Clause 8

2

**Figure 1 – Elements of business continuity management (BCM) – see ISO 22313 Figure 5**

3

4

# 5 **Societal security – Business continuity management —** 6 **Guidance on supply chain continuity**

## 7 **1 Scope**

8 This Technical Specification (TS) gives guidance on continuity management within the supply chain.  
9 Guidance is given on practical methods for understanding and extending the principles of business  
10 continuity management (BCM), as embodied in ISO 22301 and ISO 22313, to the management of  
11 supply relationships. This TS addresses relationships throughout the supply chain, between  
12 suppliers and customers. The guidance is generic and intended to be applicable to all organisations  
13 (or parts thereof), regardless of type, size and nature of business. It is applicable to the supply of  
14 products and services, both internally and externally. Usually there will be an ongoing relationship  
15 governed by contractual agreements (including Service Level Agreements (SLA) for external  
16 outsource arrangements and Operational Level Agreements (OLA) governing internal service  
17 arrangements) between the organisation and the supplier but it may also be applicable to single  
18 event relationships, for example if there is a long lead time (i.e. a significant time gap between  
19 placing the order and delivery of the good or service). The extent of application of the guidance  
20 depends on the organisation's operating environment and complexity.

21 The TS does not give guidance on developing a business continuity plan or business continuity  
22 management system which is the subject matter of the parent standards ISO 22301 and ISO  
23 22313.

## 24 **2 Normative references**

25 No normative references are applicable to this document. Important source documents are listed in  
26 the Bibliography. This clause is included to retain clause numbering similar to other management  
27 standards.

## 28 **3 Terms and definitions**

### 29 **3.1 Terms included in ISO 22300**

30 The following terms and definitions in ISO 22300 apply. All terms and definitions contained in ISO  
31 22300 are available on the ISO Online Browsing Platform [www.iso.org/obp](http://www.iso.org/obp).

#### 32 **3.1.1** 33 **business continuity**

#### 34 **3.1.2** 35 **business impact analysis**

#### 36 **3.1.3** 37 **event**

#### 38 **3.1.4** 39 **exercise**

#### 40 **3.1.5** 41 **incident**

#### 42 **3.1.6** 43 **mutual aid agreement**

44



50 **3.1.7**  
51 **prioritised activities**

52  
53 **3.1.8**  
54 **risk**

55  
56 **3.1.9**  
57 **top management**

58  
59 **3.2 Terms defined in this Technical Specification**

60 The following Terms and Definitions are applicable to this technical specification:

61 **3.2.1**  
62 **activity**

63 process or set of processes undertaken by an organisation (or on its behalf) that produces or  
64 supports one or more products and services

65 Note 1 to entry: Such processes include accounts, call centres, IT, manufacture, distribution.

66 **3.2.2**  
67 **business continuity management**

68 holistic management process that identifies potential threats to an organisation and the impacts to  
69 business operations those threats, if realized, might cause, and which provides a framework for  
70 building organisational resilience with the capability of an effective response that safeguards the  
71 interests of its key stakeholders, reputation, brand and value-creating activities

72 [SOURCE: ISO 22301]

73 **3.2.3**  
74 **business continuity management system (BCMS)**

75 part of the overall management system that establishes, implements, operates, monitors, reviews,  
76 maintains and improves business continuity

77 Note 1 to entry: The management system includes organisational structure, policies, planning activities,  
78 responsibilities, procedures, processes and resources.

79 [SOURCE: ISO 22301]

80 **3.2.4**  
81 **business continuity plan**

82 documented procedures that guide organisations to respond, recover, resume, and restore to a pre-  
83 defined level of operation following disruption

84 Note 1 to entry: Typically this covers resources, services and activities required to ensure the continuity of  
85 critical business functions.

86 [SOURCE: ISO 22301]

87 **3.2.5**  
88 **business continuity programme**

89 ongoing management and governance process supported by top management and appropriately  
90 resourced to implement and maintain business continuity management

91 [SOURCE: ISO 22301]

92 **3.2.6**  
93 **critical customer**

94 a customer the loss of whose business would jeopardize the survival of the organisation

- 95 **3.2.7**  
 96 **critical supplier**  
 97 provider of critical products or services
- 98 Note 1 to entry: This includes an “internal supplier”, which is a supplier that is part of the same organisation as  
 99 its customer.
- 100 **3.2.8**  
 101 **critical products or services**  
 102 products or services, obtained from a supplier, which if unavailable would disrupt the organisation’s  
 103 critical activities and would jeopardize the survival or the organisation.
- 104 **3.2.9**  
 105 **disruption**  
 106 event, whether anticipated (e.g. a labour strike or hurricane) or unanticipated (e.g. a blackout or  
 107 earthquake), which causes an unplanned, negative deviation from the expected delivery of products  
 108 or services according to the organisation’s objectives
- 109 **3.2.10**  
 110 **interested party - stakeholder**  
 111 person or organisation that can affect, be affected by, or perceive themselves to be affected by a  
 112 decision or activity
- 113 Note 1 to entry: This can be an individual or group that has an interest in any decision or activity of an  
 114 organisation.
- 115 [SOURCE: ISO 22301]
- 116 **3.2.11**  
 117 **organisation**  
 118 person or group of people that has its own functions with responsibilities, authorities and  
 119 relationships to achieve its objectives
- 120 Note 1 to entry: The concept of organisation includes, but is not limited to, sole-trader, company, corporation,  
 121 firm, enterprise, authority, partnership, charity or institution, or part or combination thereof, whether  
 122 incorporated or not, public or private.
- 123 Note 2 to entry: For organisations with more than one operating unit, a single operating unit can be defined as  
 124 an organisation.
- 125 [SOURCE: ISO 22301]
- 126 **3.2.12**  
 127 **outsource (verb)**  
 128 make an arrangement where an external organisation performs part of an organisation’s function or  
 129 process
- 130 Note 1 to entry: An external organisation is outside the scope of the management system, although the  
 131 outsourced function or process is within the scope.
- 132 Note 2 to entry: An outsource provider is a supplier of a product or service within the context of SCCM. Any  
 133 threat which could lead to a disruptive event affecting the outsource provider is a risk to the organisation.
- 134 [SOURCE: ISO 22301]
- 135 **3.2.13**  
 136 **products and services**  
 137 beneficial outcomes provided by an organisation to its customers, recipients and interested parties,  
 138 e.g. manufactured items, car insurance and community nursing

139 [SOURCE: ISO 22301]

140 **3.2.14**

141 **resources**

142 all assets, people, skills, information, technology (including plant and equipment), premises, and  
143 supplies and information (whether electronic or not) that an organisation has to have available to  
144 use, when needed, in order to operate and meet its objective

145 [SOURCE: ISO 22301]

146 **3.2.15**

147 **supply chain**

148 network of organisations that are involved, through upstream and downstream linkages, in the  
149 different processes and activities that produce value in the form of products and services in the  
150 hands of the ultimate consumer

151 [SOURCE: Christopher 1998]

152 **3.2.16**

153 **supply chain continuity management (SCCM)**

154 application of business continuity management to the supply chain

155 Note 1 to entry: BCM should be applied to all the tiers of an organisation's supply chain;

156 Note 2 to entry: In practice an organisation usually would only apply it to the first tier of their suppliers and  
157 influence critical suppliers to apply SCCM to their suppliers.

158 **3.2.17**

159 **supplier tier**

160 measure of the distance of a supplier from the organisation

161 Note 1 to entry: A tier 1 supplier directly supplies products or services to the organisation usually through a  
162 contractual arrangement. A tier 2 supplier provides products or services to an organization indirectly and  
163 through a tier 1 supplier.

164 **3.2.18**

165 **supplier criticality**

166 result of an assessment to identify suppliers whose failure to deliver contracted products or services  
167 would significantly impact on the organisation; failure of a critical supplier to deliver products or  
168 services in accordance with an agreement would and materially affect the ability of the receiving  
169 organisation to conduct its business

170 Note 1 to entry: The organisation needs to define the criteria to be used when evaluating the criticality of  
171 suppliers

172 **4 Why supply chain continuity is important**

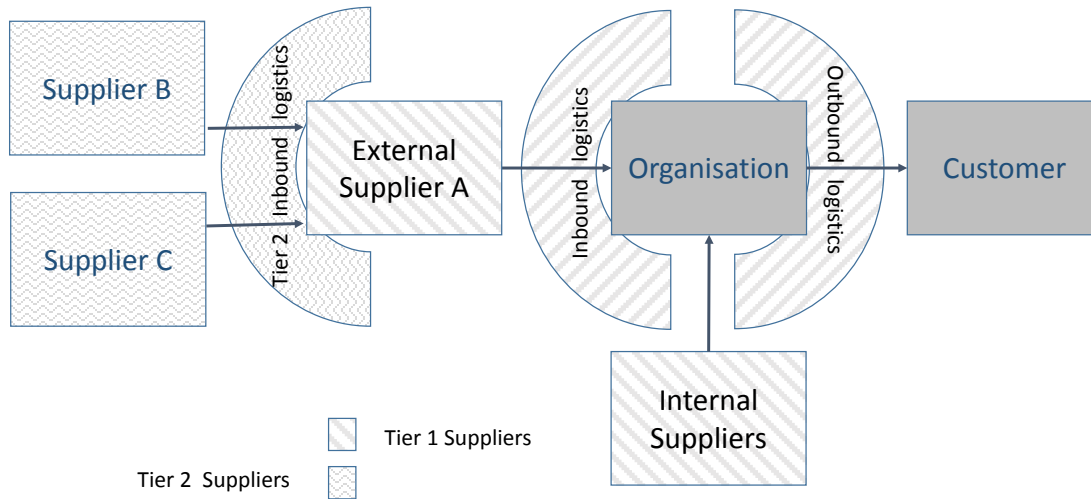
173 **4.1 Introduction**

174 This clause considers the factors which provide the structure within which SCCM is conducted.  
175 Supply chains are becoming increasingly complex and extended (often extending internationally),  
176 exposing the organisation to new and additional risk of supply chain interruption. In addition, the  
177 supply chain can be in a state of change. A supply chain is always subject to potential disruption,  
178 hence the requirement for SCCM.

179 **4.2 Describing the supply chain**

180 For the purpose of this document a broad view of a supply chain is considered which includes both  
 181 the manufacturing and distribution of products, and services, outsourcing and off-shoring. It is  
 182 applicable to organisations of all types and sizes. Figure 2 provides a simple supply chain model.

183



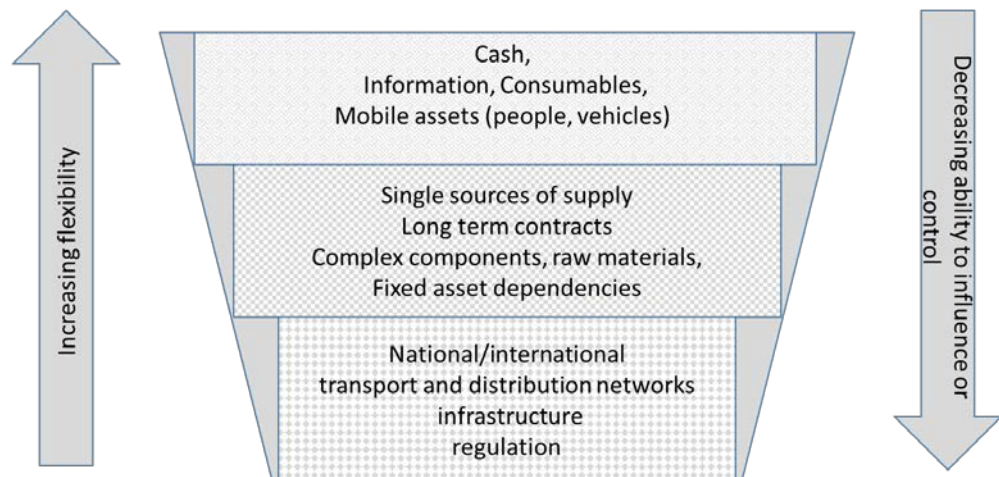
184

185

**Figure 2 – Supply chain model**

186 A supply chain exists wherever a product or service delivery depends on inputs that are not under  
 187 the direct management or control of the operating unit (the organisation). It includes both internal  
 188 and external supply relationships. The relationships with the various suppliers vary with the degree  
 189 of flexibility and the ability of the organisation to control the relationship, see Figure 3.

190



191

192

**Figure 3 – Supply chain influence and control**

193 There is a range of potential customer relationship types, including:

- 194 • business-to-business (some of whom may be distributors, wholesalers, etc.);
- 195 • business-to-consumer; and

- 196 • third-party served (where customers are served or supplied indirectly, for example, via  
197 subcontractors or agents).

198 There is also a range of potential supplier relationship types, including:

- 199 • recurring product or service suppliers (providing components, raw materials, financing, property  
200 rental, essential fixed asset maintenance, etc.);

- 201 • one-off or infrequent product or service suppliers (perhaps to provide a new piece of capital  
202 equipment);

- 203 • outsourced or contracted out (off-site service or business process providers, such as payroll  
204 bureau, IT services, contact centres, logistics or distribution);

- 205 • strategic partners (such as franchises, distributors and joint ventures); and

- 206 • co-operative relationships or interdependencies between suppliers.

207 In addition to customers and suppliers, other stakeholders might be involved in and impacted by  
208 supply chain interruptions, including local communities (for example, the community from which the  
209 work force is drawn), informal community network members, trade bodies, contracted consortium  
210 partners, partial competitors or “buddies” with reciprocal arrangements, etc.

211 Supply chain relationships may be based on a number of factors, including:

- 212 • people: personal relationships;

- 213 • formal agreements: contracts, work orders, service level agreements, operating level  
214 agreements, etc.;

- 215 • information: electronic or paper; purchase orders, design specifications;

- 216 • processes: workflow; product/service creation and delivery;

- 217 • infrastructure: transportation systems, Internet;

- 218 • culture: business networks, trading relationships; and

- 219 • environment: political, meteorological, economic (e.g. foreign exchange rates), etc.

220 NOTE These are examples only and the list is not intended to be exhaustive.

## 221 **4.3 Dynamics of supply chains**

### 222 **4.3.1 General**

223 The supply chain is important to organisations of all types and sizes, particularly as organisations  
224 seek to lower cost and enhance efficiency. Driving out inventory, time and other forms of “waste”  
225 means that goods, services, information and money are moving faster, which in turn means that the  
226 impact of an interruption to the supply chain will be felt more acutely, sooner and more often. An  
227 increasing and significant proportion of costs lie within the supply chain for many organisations,  
228 presenting both a risk and an opportunity. Poor supply chain management can destroy value and  
229 jeopardize brand and reputation.

230 A number of drivers have enabled and accelerated the extension of supply chains well beyond the  
231 organisation’s direct control, both in terms of geographical spread and the number and type of  
232 suppliers, including:

- 233 • the rise and development of the Internet, its global accessibility and relatively low cost;
- 234 • the reduction of international trade barriers and the free movement of capital;
- 235 • the addition of hundreds of millions of educated and relatively low-cost skilled workers;
- 236 • a management trend for organisations to focus on core, value-adding activities and outsource  
237 an increasing range of peripheral business processes, such as logistics, distribution, payroll,  
238 catering, cleaning, security and IT, making organisations more interdependent and extending  
239 impact of disruption across entities; and
- 240 • the emergence of resource constraints as global demand exceeds supply, so that certain  
241 supplies, including some natural resources, are only available in particular parts of the world.

242 Organisations are therefore increasingly interconnected and interdependent. As supply chains  
243 become more global in their reach, new vulnerabilities are created and exposure is increased, while  
244 horizon scanning to identify changing risk profiles (see Clause 7) becomes more challenging.  
245 Furthermore, as supply chains become more integrated and lean, the more likely it is that any event  
246 affecting one link may ripple through, affecting other links in the chain. Business impact analysis  
247 should uncover interdependence across a supply chain, but often does not extend into the supply  
248 chain past Tier 1 (direct) suppliers (those with whom the organisation has contractual relations) to  
249 those in Tier 2 (direct suppliers to Tier 1 suppliers) and beyond.

#### 250 **4.3.2 Supplier and contract lifecycle**

251 Suppliers and contracts exist within a lifecycle of supply and service acquisition, operation and  
252 discontinuation. The point of entering into a new contract or renewing an existing contract presents  
253 the organisation with an opportunity to influence future supplier behaviour through contract and/or  
254 service level changes. Conversely, longer-term contractual commitments and high supplier  
255 switching costs can shift the balance of power between the organisation and its supplier, creating  
256 resistance to changing future supplier behaviour. (Figure 3). Implementing SCCM has to be  
257 achieved within this environment. The analysis of the supply chain (Clause 5) will help to identify  
258 both the critical relationships and the requirements for, and opportunities to implement SCCM.

#### 259 **4.3.3 Who owns the risk?**

260 The fact that the organisation might be unable to deliver its products or services to its customers as  
261 a consequence of a disruption in its supply chain is a risk that the organisation itself retains. The  
262 onus is therefore on the organisation to mitigate this risk in line with its risk management policy and  
263 approach and be prepared to respond to supply chain interruptions. Customers (backed by  
264 legislation) expect the organisation to take responsibility for its supply chains and can be expected  
265 to hold the organisation (rather than its suppliers) responsible for failure to deliver products or  
266 services. Therefore, an organisation's brand is at risk of damage in the event of a problem in its  
267 supply chain or by the actions of a supplier.

268 In some extreme cases, a supply chain disruption might adversely affect an industry, market sector  
269 or the wider economy, government and public stakeholders.

### 270 **4.4 The essentials for SCCM**

271 The essential requirements for effective SCCM are:

- 272 • top management support for an SCCM initiative/project to set the priorities and standards  
273 required; to allocate resources for conduct of the analysis; and to evaluate the impact of  
274 supplier/supply failure on the organisation's critical activities;
- 275 • analysis to understand the organisation's supply chain and the risk to the organisation arising  
276 from its disruption;

- 277 • establishing continuity strategies to be applied to each supplier;
- 278 • procedures for gaining assurance from suppliers that appropriate SCCM is in place;
- 279 • a programme for ongoing management; and
- 280 • a long-term strategy to build a resilient organisation.

#### 281 **4.5 Benefits of effective SCCM**

282 Potential benefits arising from effective SCCM include:

- 283 • mapping of the supply chain gives a better understanding of where and how to improve the  
284 organisation's supplier management, which in turn can increase efficiency and reduce the  
285 likelihood and impact of supply chain interruptions;
- 286 • improved response to supply chain interruptions, including more effective collaboration with  
287 suppliers and customers;
- 288 • more frequent identification and mitigation of supply chain risks before they happen or before  
289 the organisation is impacted;
- 290 • improved business-as-usual supplier management, planning, due diligence, assurance and  
291 working relationships with suppliers; and
- 292 • the organisation can gain new customers by distinguishing itself from competitors who do not  
293 have in place effective SCCM arrangements.

#### 294 **4.6 Challenges to effective SCCM**

295 Supply chain continuity management presents a number of challenges, including:

- 296 • scale and complexity (especially large organisations that can have many thousands of  
297 suppliers);
- 298 • distance and visibility of suppliers in the supply chain (geographic separation and number of  
299 links along the chain);
- 300 • convincing suppliers that SCCM adds value to the relationship and persuading them to  
301 participate openly and transparently;
- 302 • existing contractual relationships might present infrequent "moments of change" when the  
303 service is open to alteration;
- 304 • lack of structured approach (to determine where to start, how to proceed and overcome apathy  
305 or inertia);
- 306 • lack of business case, top management commitment and necessary resources, including  
307 trained people;
- 308 • defining and embedding responsibility for SCCM across stakeholder functions within the  
309 organisation, and between organisations in the supply chain;
- 310 • striking a balance between the expense of supply chain risk reduction that pays off over a  
311 longer time period and the short-term financial rewards of lower supply chain capital and  
312 operating costs in "business-as-usual";

- 313 • differences in risk tolerance/appetites between individuals, organisations and cultures;
- 314 • shortage of resources to implement preferred strategies(both for the organisation and the  
315 supplier);
- 316 • cultural and legal differences including consideration of diversity issues;
- 317 • balance (or lack) of power in the supply chain (such as a small organisation dealing with a  
318 much larger supplier with multiple customers);
- 319 • obtaining firm and meaningful product or service supply continuity commitments from suppliers  
320 (might a supplier divert supplies to another more important customer in times of shortage?);
- 321 • difficulty in identifying indirect impacts: the loss of one supplier can make another critical; and
- 322 • difficulty understanding the full cost of disruption.

#### 323 **4.7 Key points of Clause 4: Why supply chain continuity is important**

- 324 1) A supply chain exists wherever an organisation's product or service delivery depends on inputs  
325 that are not under its direct management or control.
- 326 2) Supply chain continuity is important in an increasingly global, interconnected and fast-moving  
327 world, in which most organisations spend a significant proportion of their total costs via their  
328 supply chains, which are increasingly exposed to new and elevated risks.
- 329 3) Disruption to the supply chain can severely impact the ability of an organisation to deliver its  
330 critical business processes.
- 331 4) Supply chains are frequently composed of a large number of suppliers organized in series (like  
332 a chain) or networks (like a web). These interrelationships and the transactions between them  
333 are subject to constant change.
- 334 5) There are many supply chain stakeholders or interested parties, both within and between  
335 organisations, which need to collaborate effectively during supply chain stress situations if  
336 continuity is to be achieved.
- 337 6) The onus is on organisations (and not their suppliers) to mitigate their supply chain risk and  
338 respond to supply chain interruptions.
- 339 7) Within an organisation conflicting objectives must be managed of reducing supply chain cost  
340 (for example, by reducing cycle times and buffer stock) and reducing supply chain risk.
- 341 8) What matters is a supplier's demonstrated continuity capability to reinstate the supply of  
342 product or service to an organisation and its commitment to supply that organisation rather than  
343 another.

### 344 **5 Analysis of the supply chain**

#### 345 **5.1 Introduction**

346 Analysis of the supply chain allows an organisation to understand and assess the risk to their  
347 operation of a disruption in that supply chain. Achieving consistency in approach is central to the  
348 analysis. The depth of analysis of any given supplier needs to reflect their criticality to the  
349 organisation's activities and the level of risk to which they are exposed.

350 Suppliers are responsible for cascading the process of analysis to their own supply chains and  
351 communicating the outcomes back to the organisation.



## 352 **5.2 Considerations for analysing the supply chain**

353 In carrying out the analysis, the following need to be considered.

- 354 a) Depth of analysis required to provide assurance that dependencies and risks have been  
355 identified and understood.
- 356 b) Developing an approach which is consistent, auditable and can be maintained over time.
- 357 c) Cost/benefit analysis of the process
- 358 d) Setting standards and a framework which can be incorporated into procurement and ongoing  
359 supplier management processes.
- 360 e) Including risks identified into the organisation's risk management process.
- 361 f) identifying any legal or regulatory constraints on the suppliers.

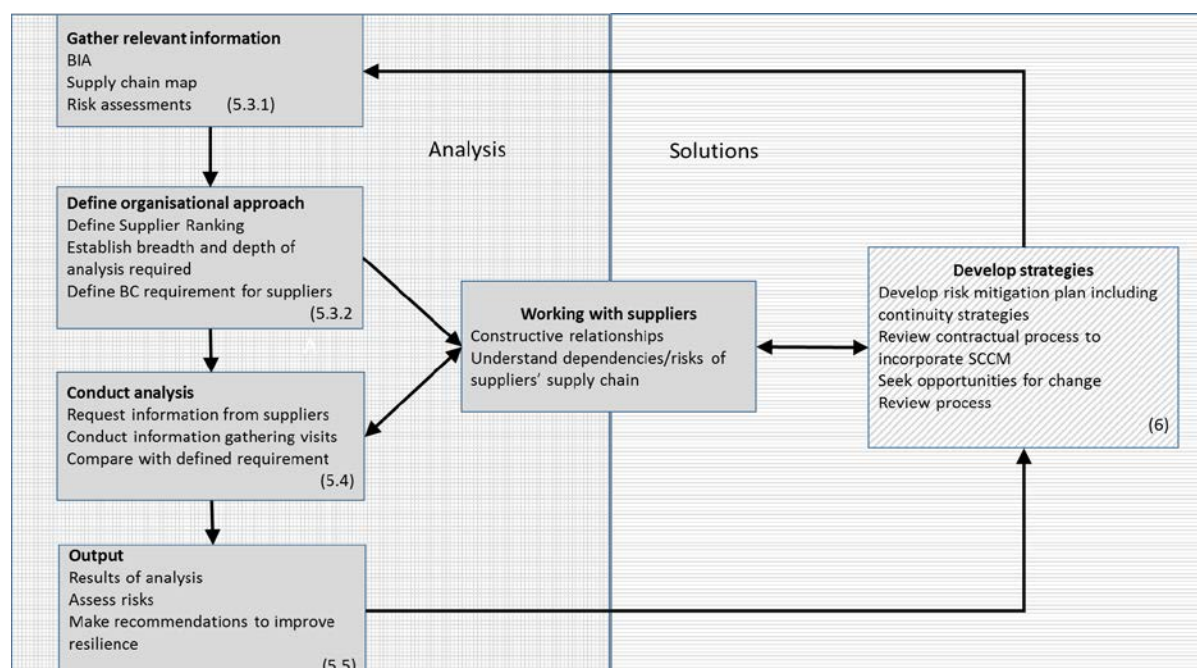
## 362 **5.3 Structure of the analysis**

### 363 **5.3.1 General**

364 An organisation may adopt the following broad structure, see Figure 4.

- 365 a) Assemble relevant documentation currently available within the organisation, e.g. business  
366 impact analyses, risk assessments and supply chain map.
- 367 b) Define and document the approach, including defining parameters which will be used to assess  
368 supplier criticality, business continuity requirements, etc. (see 5.3.2).
- 369 c) Define a supplier engagement plan and allocate responsibilities for the review and completion  
370 timescales.
- 371 d) Undertake the analysis and risk assessment with each supplier.
- 372 e) Assess the overall level of risk from each supplier.
- 373 f) Share results with the appropriate supplier (gap analysis), make improvement  
374 recommendations, agree an action plan and the process to monitor progress.
- 375 g) Review the results of suppliers' analyses of their own supply chain.
- 376 h) Revise the level of risk from each supplier based on this and any common dependencies  
377 between suppliers.
- 378 i) Produce an overall analysis of the supply chain mapping supplier capability against their  
379 criticality.

380



381

382

Figure 4 – Supply chain analysis flow chart

### 383 5.3.2 Define organisational approach

384 In undertaking the analysis it is important to achieve consistency across the organisation and to  
 385 create an approach that is sustainable over time. To help achieve this, a set of core organisational  
 386 approaches should be developed. These approaches should be specific to the organisation, and  
 387 tailored to meet the operational and environmental needs. They should include:

- 388 • definition of supplier criticality, for example a two tier approach (see Note 2 below):
- 389 a) “critical”: suppliers whose products or services are essential for the organisation to  
 390 continue its critical activities and their loss would jeopardise the survival of the  
 391 organisation; or
- 392 b) “non-critical”: suppliers, the loss of whose products or services could be tolerated for a  
 393 limited period without adversely impacting the core activities of the organisation;

394 NOTE 1 Analysis needs to consider the impact of an incident and its effect on a number of non-critical  
 395 suppliers supplying the same product or service, at the same time.

396 NOTE 2 The example above only defines two levels of supplier criticality businesses with many suppliers  
 397 may need to define more supplier criticality groupings to provide a manageable structure for the programme;  
 398 for example a three tier approach: strategic (business partners), core (suppliers who provide essential services  
 399 or products), transactional (suppliers of routine non critical products).

- 400 • defining acceptable business continuity requirements for suppliers:
- 401 1) what capability the organisation expects for each category of supplier, e.g. minimum levels  
 402 of supply and recovery time objectives (RTOs), and
- 403 2) what evidence it expects from suppliers to demonstrate compliance/capability;
- 404 • breadth and depth of analysis – is the analysis to include all suppliers or only certain categories  
 405 of supplier based on their criticality? How far down the supply chain should the analysis be  
 406 conducted?

- 407 • how frequently the analysis is to be repeated; and
- 408 • incorporating the requirements into any tender/procurement process and the ongoing supplier  
409 management and development.

410 The overall approach should be fully documented and signed-off within the organisation by top  
411 management.

#### 412 **5.4 Conducting the analysis**

413 The organisation should share with suppliers the rationale for the analysis and its potential benefits  
414 to them, including an explanation of its requirements and the expectations of each supplier.

415 Working within the structured approach which has been defined, the organisation should map the  
416 various layers of the supply chain (see Figure 2), drawing on any business impact analysis (BIA)  
417 undertaken to identify the organisation's critical activities, their respective RTO's and the suppliers  
418 on which it depends in order to deliver these. The results of the BIA and the supply chain analysis  
419 together, should describe the effect on the organisation of any disruption to supply

420 For each supplier there should be evaluation, with respect to the organisation of:

- 421 a) the criticality of the product or service they provide;
- 422 b) whether this supplier is the only source for that product or service;
- 423 c) the risks facing the supplier with respect to the critical product or service provided to the  
424 organisation;
- 425 d) whether the supplier has in place effective business continuity arrangements;
- 426 e) the extent to which the supplier has already assessed its own supply chain risks;
- 427 f) what priority the organisation has in the supplier's list of critical customers; and
- 428 g) whether the supplier's recovery time objectives will allow the organisation to continue to  
429 conduct its critical activities.

430 To support maintenance of SCCM an evidential approach to assessment of suppliers should be  
431 used including material such as:

- 432 1) documented BIAs, risk assessments and business continuity plans;
- 433 2) documented processes for maintaining and updating suppliers' continuity plans; and
- 434 3) documented exercise plans and post-exercise and post-incident reports.

435 NOTE For the most critical suppliers review of documentation will rarely give sufficient confidence in the  
436 continuity capability and should be backed up with site visits and observation of exercises to validate  
437 documentation.

#### 438 **5.5 Output of Analysis**

439 The output of the analysis is an auditable, evidence based report for each supplier which as a  
440 minimum identifies:

- 441 • continuity provisions which supplier has in place and evidence that supplier's BCM approach is  
442 fit for purpose

- 443 • how these provisions compare with the organisations expectations
- 444 • how continuity in suppliers' supply chain is managed
- 445 • threats to supply of the relevant product or service
- 446 • recommendations for improvements.

## 447 **5.6 Key points of Clause 5: Analysis of the supply chain**

- 448 1) Supply chains are often broad, complex and interdependent, with multiple layers of  
449 dependencies.
- 450 2) It is essential to understand the supply chain and the risks it poses to the organisation before  
451 selecting continuity strategies for supplies.
- 452 3) Any analysis should be undertaken jointly with suppliers, who in turn should be responsible for  
453 cascading the analysis to their suppliers.
- 454 4) The analysis should be based on a set of core criteria developed by the organisation: giving a  
455 common organisational approach.
- 456 5) These criteria should encompass the analysis process and the business continuity  
457 requirements for suppliers.
- 458 6) Key outputs from the analysis process include an overall assessment of the level of risk posed  
459 by the supply chain and by specific suppliers within it.
- 460 7) Supply chains are dynamic so business continuity requirements should be built into  
461 tender/procurement and supplier management processes, and the overall analysis process  
462 should be repeated periodically.

## 463 **6 SCCM Strategies**

### 464 **6.1 Introduction**

465 An appropriate recovery strategy (section 6.2) should be identified for every supplier. In choosing  
466 the most appropriate strategy, or combination of strategies, account needs to be taken of the  
467 challenges to SCCM identified in section 4.6 which may limit the options available. The results from  
468 the analysis should have identified:

- 469 • the suppliers;
- 470 • the impact on the business should the supply of product or services be disrupted;
- 471 • the criticality of each supplier and hence the tolerance over time of disruption; and
- 472 • an understanding of the continuity measures each supplier has in place both for itself and its  
473 own supply chain.  
474

475 The options described here are not mutually exclusive and mitigating the risk arising from an  
476 individual supplier may require more than one approach to be implemented. Achieving the final  
477 solution will take time; it might be necessary to adopt interim approaches with some suppliers until  
478 the opportunity arises to implement the optimum solution, particularly where the supply  
479 contract/agreement in place has a considerable time to run and there is limited opportunity to  
480 negotiate any change of conditions.

481 Where it is possible to quantify the cost of disruption in terms of lost output, cost of customer  
 482 compensation, likely scale of fines for breaching regulations, or price of purchasing alternative  
 483 products or services, it is relatively straight forward to justify the cost of putting risk mitigation  
 484 measures in place. It is not so easy to measure the intangible costs of disruption, such as damage  
 485 to reputation or loss of competitiveness, so the case for implementing mitigation measures might be  
 486 less clear, but the risk assessment/BIA should emphasize the importance of suppliers to delivery of  
 487 critical activities or processes.

## 488 **6.2 Continuity Strategy Options**

### 489 **6.2.1 Option 1 Accept status quo**

490 This 'Do Nothing' option is more likely to be adopted for non-critical suppliers. It might be  
 491 appropriate to take out insurance to cover loss of profit (this is not a BC option as payments can lag  
 492 significantly behind any incident; and in some cases, they arrive too late to save the organisation  
 493 and are used merely to pay creditors).

### 494 **6.2.2 Option 2 Reduce dependency**

495 Reduce dependence on a supplier(s) by, for example:

- 496 1) having two or more sources of supply at all times (see Option 3);
- 497 2) lengthening the time before a disruptive event affects the organisation by measures such as  
 498 increasing stock holding on site or with distributors; and
- 499 3) establishing alternative solutions: pragmatic responses to managing risks arising from critical  
 500 suppliers which the organisation is unable to influence, e.g. providing a standby generator to  
 501 cover for loss of power supplies or developing multichannel communications systems to reduce  
 502 dependence on a single channel or supplier.

### 503 **6.2.3 Option 3 Increase resilience**

504 Develop recovery strategies which are independent of the supplier(s) for example:

- 505 1) developing workarounds (to mitigate loss of services);
- 506 2) identifying alternative suppliers who are able/prepared to pick up the demand at minimal notice;  
 507 and
- 508 3) agreeing mutual support arrangements with competitors.

### 509 **6.2.4 Option 4 Work with the supplier**

510 Work with each supplier to improve resilience/recoverability by:

- 511 1) developing relationships with critical suppliers to understand their arrangements and form  
 512 partnerships based on mutual trust which will facilitate speedy recovery;
- 513 2) clearly defining the performance standard required and the process by which this will be  
 514 assessed;
- 515 3) helping/encouraging the supplier to improve its resilience; and
- 516 4) include SCCM requirements into contract terms.

### 517 **6.2.5 Option 5 Exit the relationship**

518 If a suitable provision for SCCM with a critical supplier cannot be found consider exiting the  
519 contract.

## 520 **6.3 Including SCCM capability into a supply contract**

521 To deliver SCCM over the longer term the organisation should include the continuity requirement  
522 within the tender process to ensure suppliers have adequate BCM provision for the product or  
523 service being provided:

- 524 • defining the organisation's BC requirement in the invitation to tender (ITT) and assessing the  
525 quality of the responses during the supplier selection process (this would include seeking  
526 documentary evidence of BC arrangements);
- 527 • establishing a framework solution (e.g. a standard contract clause) to deliver the chosen  
528 continuity strategy, which can be applied immediately to new contracts and for which early  
529 opportunities can be sought to apply it to existing contracts;
- 530 • including escalation triggers and measures for notification and incident management in contract  
531 terms and SLAs;
- 532 • specifying in contracts a requirement to notify key events and information, including invocations,  
533 plan reviews, exercises and documents;
- 534 • arrangements for joint exercises and sharing of learning points;
- 535 • incorporating into contracts provision for management review and/or audit of BC arrangements;
- 536 • encouraging visibility of a supplier's approach to assessing the impact of disruption within the  
537 supplier's own supply chain and measures being taken to mitigate this risk;
- 538 • early notification of changes to the supply environment which could jeopardize the BCM  
539 arrangements;
- 540 • effects on contract of not achieving required BCM criteria, including escalation process and  
541 potential contract termination; and
- 542 • excluding force majeure clauses which can be easily invoked by the supplier instead of  
543 implementing effective BCM arrangements.

544 **NOTE** Force Majeur is a common clause in contracts that essentially frees both parties from liability or  
545 obligation when an extraordinary event or circumstance beyond the control of the parties, such as a war, strike,  
546 riot, crime, or an event described by the legal term *act of God* (such as hurricane, flooding, earthquake,  
547 volcanic eruption, etc.), prevents one or both parties from fulfilling their obligations under the contract. In  
548 practice, most force majeure clauses do not excuse a party's non-performance entirely, but only suspends it for  
549 the duration of the force majeure.

## 550 **6.4 Ownership of SCCM**

551 The organisation should identify those with responsibility for supplier management and for  
552 securing/monitoring supply chain continuity assurance. It should also be closely linked to the wider  
553 arrangements for BCM within the organisation.

554 Those who bought the products or services (purchasing) should hand over the responsibility for  
555 managing the SCCM to those who are going to manage the contract or run operations. It is  
556 important to ensure that the control measures put in place do not degrade over time, e.g. having  
557 secured two suppliers to achieve resilience, it is important to guard against the potential for the  
558 number of suppliers to be reduced to one as a cost-saving measure at some time in the future.

## 559 **6.5 Key points of Clause 6: Considering options: developing strategies**

- 560 1) There is a range of potential strategies for building greater resilience in the supply chain. The  
561 choice of the best strategy(s) depends on identifying and highlighting the most critical suppliers.
- 562 2) Where cost-effective, choose strategies which allow the organisation to reduce the impact of  
563 disruption independently of the supplier, e.g. setting up more than one source of supply and/or  
564 increasing stockholding of critical resources.
- 565 3) Where it is not possible to mitigate the impact, a continuity solution should be developed in  
566 cooperation with the supplier.
- 567 4) The requirement for suppliers to put in place an effective business continuity solution for  
568 themselves and their supply chain needs to be incorporated within the supply contract. Critical  
569 suppliers need to provide evidence of this both at the time the contract is awarded and as part  
570 of ongoing assurance.
- 571 5) The contract/agreement needs to define information exchange and plan invocation procedures  
572 to be used between suppliers and customers.
- 573 6) It is necessary to recognize that it will take time to implement the best possible approach and  
574 that it might be necessary to accept partial solutions to mitigate the risk in the short to medium  
575 term.

## 576 **7 Managing a disruption in the supply chain**

### 577 **7.1 Introduction**

578 This clause assumes that appropriate analysis has been done of the supply as defined in clause 5  
579 and appropriate strategies put in place in accordance with clause 6. However, threats to the supply  
580 chain still exist and the organisation needs to have in place the processes required to manage an  
581 incident. It is important to maintain engagement with critical suppliers to ensure continuity  
582 management arrangements are available and effective. This is best achieved by ensuring regular  
583 and open discussion between the parties to create a partnership between the organisation and the  
584 supplier.

585 It is easy to make assumptions about how each side will respond in the event of an incident; these  
586 assumptions need to be validated.

### 587 **7.2 Before an incident happens**

588 Business continuity plans should include:

- 589 • Details of any limitations on the organisation arising from supplier disruption; e.g. breaks in  
590 supply of goods or services whilst recovery takes place.
- 591 • Supplier expectation of support the organisation may provide them.
- 592 • Action plan for the organisation's immediate response.

593 Exercise integration. If possible, inviting the suppliers to take part in BC exercises that relate to the  
594 products/services they supply will allow the suppliers to understand the criticality of their supply. It  
595 would also enable the suppliers to identify any delivery issues that they could experience in  
596 supplying to an alternative site. It is also valuable for the organisation to be able to attend supplier  
597 exercises relating to the products/services supplied to it. The organisation can gain objective  
598 assurance of the supplier's ability to continue to supply in the event of an interruption.

599 Make use of horizon scanning to alert the organisation to emerging risks which may affect the  
 600 supply chain. Disruptions might arise due to the indirect effect of external events, such as transport  
 601 disruption caused by a fuel shortage brought on by industrial action or movement restrictions  
 602 imposed by a disease outbreak. The time taken for a supplier to identify a problem and notify the  
 603 organisation of the potential impact could cost the organisation potentially valuable response time.

### 604 **7.3 Incident detection and notification**

605 Early detection of a disruptive event enables an effective and appropriate response. This requires  
 606 that the relationship between the organisation and each supplier is open and suppliers feel  
 607 confident that they can raise issues with the organisation.

608 Where the relationship is less transparent the supplier may be reluctant to inform their customers of  
 609 a disruption, or potential disruption due to optimism about its ability to resolve the disruption without  
 610 impact to the organisation. The impact of delayed notification potentially increases the risk of a  
 611 minor problem becoming a major issue for the organisation. This is particularly true if the supplier  
 612 does not have a full understanding of their importance to the affected activity.

### 613 **7.4 During an incident**

614 Factors to consider during an incident are:

- 615 • Coordinated incident management. If the disruption experienced by the critical supplier impacts  
 616 the operation it is important to coordinate the incident management of both organisations. This  
 617 reduces the likelihood of wrong assumptions and minimizes the impact to the organisation.
- 618 • Impact of supplier's operating location with respect to geography, cultural and political  
 619 differences.
- 620 • Regular communication with the supplier about the current situation and the potential return to  
 621 normal working is essential throughout the incident.
- 622 • External communications: It is essential that the organisation understands the approach that the  
 623 supplier will have to external communications to avoid "mixed messages" and the consequential  
 624 reputational damage.
- 625 • Recognise this is a reciprocal arrangement; if the organisation is the source of the incident  
 626 suppliers need to be engaged to manage both their business operations which may be affected  
 627 by disruption and/or to provide valuable support to facilitate the organisation's recovery.

### 628 **7.5 Return to business as usual**

629 A combined approach is required to facilitate recovery to business as usual; this will take time and  
 630 may require co-ordination with many suppliers whose operations have been affected.

631  
 632 After any disruption, there is an opportunity to learn lessons and improve matters so that similar  
 633 events in the future will have less impact on both the supplier and the organisation. These might  
 634 result in improvements in the organisation or the supplier's operations, or to the information flows  
 635 between suppliers and the organisation. However, a supplier could be reluctant to share full details,  
 636 especially where other suppliers are involved in the review. In addition to managing concerns about  
 637 sharing sensitive information, suppliers might be reluctant to accept follow-up actions without  
 638 changes to contracts and charges. If possible, the organisation should be allowed to see any  
 639 actions resulting from the incident and be able to track the status toward their completion.

### 640 **7.6 Key points of clause 7: Managing a disruption in the supply chain**

- 641 1) Include details of supply chain continuity management arrangements into BC Plans



- 642 2) Exercise with suppliers to improve co-ordination and understanding of each other's issues.
- 643 3) Ensure there is an agreed procedure in place for suppliers to alert the organisation to incidents  
644 or potential incidents as early as possible
- 645 4) During an incident ensure that command and control is integrated
- 646 5) Co-ordinate external communications plans.
- 647 6) Post event conduct a thorough, shared review of what happened and the lessons to be learnt.

## 648 **8 Performance evaluation**

### 649 **8.1 Introduction**

650 Performance evaluation covers the ongoing management of the SCCM including monitoring,  
651 verification, validation and review of SCCM arrangements stimulates continuous improvement and  
652 provides assurances in the supply chain.

653 Ongoing management and review is a proactive and dynamic process which should be reviewed at  
654 agreed intervals with the organisation's critical suppliers. This process monitors and acts as an  
655 early detection mechanism for any changes in a supplier's business, e.g. organisational changes,  
656 reporting processes, manufacturing location and outsourcing. It should be included as part of the  
657 routine management of the contract.

658 Monitoring and review help to ensure that critical suppliers continue to have in place robust  
659 business continuity arrangements by:

- 660 a) utilizing the regular meetings with suppliers to gain an early understanding of any changes to  
661 the supplier's operation or their continuity plans that relate to the goods or services provided;
- 662 b) monitoring supply chain performance and identifying potential issues;
- 663 c) establishing escalation triggers and procedures for suppliers to report failures;
- 664 d) identify any "hidden" risks with its critical suppliers in the event that they suffer a disruption; and
- 665 e) facilitate the alignment of suppliers' RTOs and SLAs with those of the organisation.

### 666 **8.2 Engaging with suppliers**

667 BCM assurance should be introduced and accepted as a business-as-usual item for discussion  
668 through:

- 669 a) inclusion as an agenda item for supplier update meetings;
- 670 b) shared education and training tools;
- 671 c) the procurement and contracts process;
- 672 d) monitoring of performance metrics.
- 673 e) testing of incident plans and well-rehearsed triggers and escalation plan;
- 674 f) shared understanding of command and reporting structures in the event of an incident;
- 675 g) collaborative exercise programme

### 676 **8.3 Implementing a SCCM performance evaluation programme**

677 To implement a SCCM assurance programme, the following need to be maintained:

- 678 a) The organisation's criteria for the SCCM capability required from suppliers; this will depend on  
679 the assessment of criticality and the chosen BCM strategy for each supplier.
- 680 b) The assurance process should include:
- 681 i. maintaining the analysis, see 8.4;
  - 682 ii. key performance indicators (KPIs)/metrics for ongoing monitoring;
  - 683 iii. design of questionnaires/checklists/self-evaluations;
  - 684 iv. escalation process for suppliers who do not meet the criteria;
  - 685 v. review of organisational process from procurement to BCM team;
  - 686 vi. review of contract and schedule clauses for use by procurement/supply chain  
687 management.

### 688 **8.4 Maintaining the analysis**

689 The supply chain and the risks it faces are constantly changing so it is important to establish a  
690 process to keep the analysis up-to-date and identify opportunities for continuous improvement. The  
691 organisation should:

- 692 a) implement a rolling review process to monitor supply chain changes, implementation of  
693 improvements, etc.;
- 694 b) identify individuals responsible for this ongoing work, incorporating it into the existing supplier  
695 management process wherever possible;
- 696 c) build supplier requirements into tender/procurement processes; and
- 697 d) include the supplier SCCM assurance process into the scope of BCM audits.

### 698 **8.5 Outcomes of performance evaluation**

699 Performance evaluation should be outcome focussed. When assessing a supplier's ability to meet  
700 the organisation's requirements, the following should be examined:

- 701 a) supplier's documented BIAs, risk assessments and business continuity plans;
- 702 b) documented processes for maintaining and updating suppliers' continuity plans;
- 703 c) supplier's exercise plans and post-exercise and post-incident reports;
- 704 d) documented notification process is in place that includes key organisations likely to be  
705 impacted; and
- 706 e) documented communications plan that includes joint communications and statements that take  
707 into consideration the organisations impacted.

708 The benefits of the process are:

- 709 a) greater confidence in the supply chain (i.e. better understanding of the risks and controls);

- 710 b) evaluation of whether each supplier/partner meets the organisation's BCM requirements;
- 711 c) early indication of changes likely to affect the supply relationship;
- 712 d) identification of gaps in capability which the supplier needs to address; and
- 713 e) supplier monitoring and performance measurement against targets.
- 714 If there are significant issues with a supplier's BCM provision then the organisation can review the  
715 relationship and/or the SCCM strategy, see Clause 6.
- 716 In conducting performance evaluation the following should be considered:
- 717 a) a supplier may have many customers who wish to validate their BCM and this could be both  
718 costly and disruptive to the supplier;
- 719 b) performance evaluation is an indicator, not a guarantee. It is only a snapshot at a particular  
720 point in time. Situations can change, so the programme needs to be reviewed regularly;
- 721 c) the performance evaluation process and implementing remedial actions could result in  
722 increased costs; and
- 723 d) the right to carry out performance evaluation should be included in the contract/agreement. If  
724 the right to undertake performance evaluation is not in the agreement it should be added, if  
725 possible.
- 726 **8.6 Key points of Clause 8: Performance management**
- 727 1) The onus is on the organisation to ensure that SCCM provisions required to protect its critical  
728 activities or processes are maintained.
- 729 2) Owners of supplier relationships need to have appropriate triggers and escalation pathways in  
730 place to alert and deal quickly with changes to critical supplier performance.
- 731 3) Regular engagement with suppliers through update meetings or calls, is essential to  
732 maintaining supplier relations.
- 733 4) Including suppliers in exercises can highlight previously unknown risks which can be added to  
734 an action log for both to work through.
- 735 5) Performance evaluation includes monitoring, verification, validation and review of SCCM  
736 arrangements, stimulates continuous improvement and provides assurances in the supply  
737 chain.

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