



# The Global Standard for Procurement and Supply

Version 3.0 – Published 2017

Leading global excellence in procurement and supply

# Segment 3.5 Improving Systems Capabilities for Supply Chain Management

**Level:** Advanced Professional

**Theme:** Technology

Knowledge: Will know and understand	Capabilities: Will be able to
The use of bespoke systems and commercial off-the-shelf systems (COTS) and workflows to enable organisations to improve control of expenditure with suppliers	Critically evaluate opportunities for the development of systems or procurement of commercial off-the-shelf systems (COTS) to enable organisations to improve control of expenditure with suppliers
The use of database systems, data centres and data warehousing for procurement and supply chain management	Investigate opportunities for the development of database systems, data centres and data warehousing used in procurement and supply chain management and make recommendations to colleagues and stakeholders
The development of big data analytics to assist decision making	Assess opportunities to develop and make use of big data analytics to improve supply chain planning, forecasting and control

## Knowledge: Will know and understand

Contemporary enterprise resource planning (ERP) and other procurement systems and business transformation projects, and their impact on procurement and supply chain management and the wider organisation

The impact of P2P (Purchase to Pay) systems used in procurement and supply chain management

Developments in systems technologies such as:

- Intranets and extranets
- Data centre management
- Cloud computing
- Open source software
- Convergence of technology platforms
- Mobile communications
- Remote working
- Video conferencing and collaboration tools
- Artificial intelligence (AI)

The use of integration tools and blockchain technology to improve supply chain management

## Capabilities: Will be able to

Critically evaluate the capabilities and application of enterprise resource planning (ERP) and other procurement systems, databases and business transformation projects for procurement and supply chain activities, and make recommendations to senior managers on their selection, development and implementation

Maximise the use of P2P (Purchase to Pay) systems and make recommendations to senior managers on the development and use of touchless transactions

Critically assess improvements that can be made to integrate both internal technologies and systems across supply chains through data integration and make recommendations to colleagues and other stakeholders

Critically assess improvements that can be made to integrate both internal systems and systems across supply chains through data integration or blockchain technology and make recommendations to colleagues and other stakeholders

## Knowledge: Will know and understand

The development of business continuity plans to mitigate interruptions in the supply chain

## Capabilities: Will be able to

Work with key stakeholders to assess the business continuity plans created by key suppliers and provide advice on potential improvements that can be made

## Related CIPS Knowledge Links

[Application of Technology - http://www.cips.org/Knowledge/Procurement-topics-and-skills/eCommerce---systems/Application-of-Technology/](http://www.cips.org/Knowledge/Procurement-topics-and-skills/eCommerce---systems/Application-of-Technology/)

[eSourcing/eProcurement systems P2P - http://www.cips.org/Knowledge/Procurement-topics-and-skills/eCommerce---systems/E-sourcing--E-procurement-systems-P2P/](http://www.cips.org/Knowledge/Procurement-topics-and-skills/eCommerce---systems/E-sourcing--E-procurement-systems-P2P/)

[MRP/CRP - http://www.cips.org/Knowledge/Procurement-topics-and-skills/eCommerce---systems/MRP--CRP-/](http://www.cips.org/Knowledge/Procurement-topics-and-skills/eCommerce---systems/MRP--CRP-/)

[Warehousing - http://www.cips.org/Knowledge/Procurement-topics-and-skills/Operations-Management/Warehousing1/](http://www.cips.org/Knowledge/Procurement-topics-and-skills/Operations-Management/Warehousing1/)

[Business Continuity Management \(BCM\)/Business Continuity Planning \(BCP\) - https://www.cips.org/en-GB/Knowledge/Procurement-topics-and-skills/Strategy-policy/Business-Continuity-Management-BCM--Business-Continuity-Planning-BCP1/](https://www.cips.org/en-GB/Knowledge/Procurement-topics-and-skills/Strategy-policy/Business-Continuity-Management-BCM--Business-Continuity-Planning-BCP1/)

[Data Analysis/Business Intelligence - http://www.cips.org/en-gb/knowledge/procurement-topics-and-skills/understand-need---market-and-options-assessment/data-analysis--business-intelligence/](http://www.cips.org/en-gb/knowledge/procurement-topics-and-skills/understand-need---market-and-options-assessment/data-analysis--business-intelligence/)

[Cloud Mobile Solutions - https://www.cips.org/en/knowledge/procurement-topics-and-skills/ecommerce---systems/Cloud-Mobile-Solutions/](https://www.cips.org/en/knowledge/procurement-topics-and-skills/ecommerce---systems/Cloud-Mobile-Solutions/)

# Segment 3.6 Improving Data Integrity in Supply Chains

**Level:** Advanced Professional

**Theme:** Technology

Knowledge: Will know and understand	Capabilities: Will be able to
Data integrity in procurement and supply chain management	Evaluate improvements that can be made to data integrity for procurement and supply chain activities and make recommendations to colleagues and other stakeholders
The standards and storage of data and sources of intellectual property	Advise colleagues, suppliers and associated stakeholders on the standards, storage and passing of data affecting the supply chain
The use of information assurance and information <a href="#">risk</a> management policies to protect the privacy of data for individuals, the organisation and the supply chain	Advise colleagues, suppliers and other affected stakeholders on issues relating to the confidentiality of data
Legal aspects relating to the protection of data, such as; <ul style="list-style-type: none"><li>• Data protection</li><li>• Responsible data handling</li><li>• Cyber security</li></ul>	Advise colleagues, suppliers and associated stakeholders on legal aspects relating to the protection of sensitive data affecting the supply chain

Knowledge: Will know and understand	Capabilities: Will be able to
<p>Data disruption, the use of data resilience strategies and disruption tolerant networks</p>	<p>Assess and evaluate implications of data disruption on the organisation and the supply chain and develop plans and processes to mitigate data disruption</p>

The use of cyber security to protect the confidentiality, integrity and availability of data with external organisations and individuals

Work with key stakeholders to ensure robust cyber security plans and processes are created and followed

## Related CIPS Knowledge Links

[Coding and Classification - http://www.cips.org/Knowledge/Procurement-topics-and-skills/eCommerce---systems/Coding-and-Classification/](http://www.cips.org/Knowledge/Procurement-topics-and-skills/eCommerce---systems/Coding-and-Classification/)

[Data Analysis/Business Intelligence - http://www.cips.org/Knowledge/Procurement-topics-and-skills/Understand-Need---Market-and-options-assessment/Data-Analysis-Business-Intelligence/](http://www.cips.org/Knowledge/Procurement-topics-and-skills/Understand-Need---Market-and-options-assessment/Data-Analysis-Business-Intelligence/)

[Legislation - http://www.cips.org/Knowledge/Procurement-topics-and-skills/External-Environment/Legislation1/](http://www.cips.org/Knowledge/Procurement-topics-and-skills/External-Environment/Legislation1/)

[Risk Analysis and Management - http://www.cips.org/Knowledge/Procurement-topics-and-skills/Risk-mitigation/Risk-Analysis-and-Management1/](http://www.cips.org/Knowledge/Procurement-topics-and-skills/Risk-mitigation/Risk-Analysis-and-Management1/)

[Cyber Security - https://www.cips.org/en-GB/Knowledge/Procurement-topics-and-skills/eCommerce---systems/Cyber-Security/](https://www.cips.org/en-GB/Knowledge/Procurement-topics-and-skills/eCommerce---systems/Cyber-Security/)