

# ISO/IEC 15944-20:2015-12 (E)

## Information technology - Business Operational View - Part 20: Linking business operational view to functional Linking business operational view to functional service view service view

---

| <b>Contents</b>            |   | <b>Page</b> |
|----------------------------|---|-------------|
| Foreword .....             |   | v           |
| Introduction .....         |   | vi          |
| <b>1</b>                   | <b>Scope .....</b>  | <b>1</b>    |
| 1.1                        | Statement of scope .....  | 1           |
| 1.2                        | Exclusions .....  | 1           |
| <b>2</b>                   | <b>Terms and definitions .....</b>  | <b>1</b>    |
| <b>3</b>                   | <b>Symbols and abbreviations .....</b>  | <b>7</b>    |
| <b>4</b>                   | <b>The Business Operational View of eBusiness Interoperability .....</b>  | <b>7</b>    |
| <b>5</b>                   | <b>The Functional Service View of eBusiness Interoperability .....</b>  | <b>8</b>    |
| 5.1                        | Overview .....  | 8           |
| 5.2                        | Technology within IT systems .....  | 8           |
| 5.3                        | Interoperability among IT systems .....   | 8           |
| 5.4                        | Benefit of using FSV standards .....  | 9           |
| 5.5                        | Functional components of IT systems .....   | 10          |
| <b>6</b>                   | <b>Linking the BOV to FSV representation and technology .....</b>   | <b>11</b>   |
| <b>7</b>                   | <b>User data interoperability .....</b>   | <b>12</b>   |
| 7.1                        | Overview .....  | 12          |
| 7.2                        | User data syntax constraints .....  | 13          |
| 7.3                        | User data value constraints .....   | 14          |
| <b>8</b>                   | <b>Choreography interoperability .....</b>  | <b>15</b>   |
| <b>9</b>                   | <b>Transfer interoperability .....</b>  | <b>17</b>   |
| 9.1                        | Overview .....  | 17          |
| 9.2                        | Identification of parties .....   | 17          |
| 9.3                        | Assuring the integrity of information bundles .....   | 18          |
| 9.4                        | Reliability of exchanges .....  | 18          |
| <b>10</b>                  | <b>FSV implementation requirements .....</b>  | <b>18</b>   |
| 10.1                       | Operational requirements .....  | 18          |
| 10.2                       | Version interoperability .....  | 18          |
| 10.2.1                     | Overview .....  | 18          |
| 10.2.2                     | Backward-compatible exchanges and expressions .....   | 18          |
| 10.2.3                     | Forward-compatible processes .....  | 19          |
| <b>11</b>                  | <b>Conformance statement .....</b>  | <b>19</b>   |
| <b>Annex A (normative)</b> | <b>Consolidated list of terms and definitions with cultural adaptability: ISO English and ISO French language equivalency .....</b> | <b>20</b>   |
| <b>A.1</b>                 | <b>Introduction .....</b>   | <b>20</b>   |

|   |   |             |
|---|---|-------------|
| <b>A.2</b>  | <b>ISO English and ISO French .....</b>   | <b>20</b>   |
| <b>A.3</b>  | <b>Cultural adaptability and quality control .....</b>                                  | <b>20</b>   |
| <b>A.4</b>  | <b>Organization of Annex A - Consolidated list in matrix form .....</b>                 | <b>20</b>   |
| <b>Annex B (informative) eBusiness interoperability .....</b> |   | <b>25</b>   |
| <b>Bibliography .....</b>                                     |   | <b>27</b>   |
| <b>List of Figures</b>  | <b>Figure 1 Open-edi environment - relationships .....</b>                              | <b>vi</b>   |
|   | <b>Figure 2 Part 20 view of the Open-edi Reference Model .....</b>                      | <b>viii</b> |
|   | <b>Figure 3 Business relationships inside and outside Open-edi configurations .....</b> | <b>9</b>    |
|   | <b>Figure 4 Relationships between functional components .....</b>                       | <b>10</b>   |
|   | <b>Figure 5 Open-edi system relationships .....</b>                                     | <b>11</b>   |
|   | <b>Figure 6 FSV perspective of the Open-edi Reference Model .....</b>                   | <b>11</b>   |
|   | <b>Figure 7 Constraints on user data .....</b>  | <b>13</b>   |
|   | <b>Figure 8 Base FSV standard for syntax .....</b>                                      | <b>14</b>   |
|   | <b>Figure 9 FSV Base Choreography Exchange Depiction .....</b>                          | <b>16</b>   |
|   | <b>Figure 10 FSV Base Choreography UML Depiction .....</b>                              | <b>16</b>   |
|   | <b>Figure B.1 eBusiness Interoperability .....</b>                                      | <b>26</b>   |