

ISO/IEC TR 16167:2011-09 (E)

Information technology - Telecommunications and information exchange between systems - Next Generation Corporate Networks (NGCN) - Emergency calls

| Contents | | Page |
|--------------------|---|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 2 |
| 3 | Terms and definitions | 2 |
| 3.1 | External definitions | 2 |
| 3.2 | Other definitions | 2 |
| 4 | Abbreviations | 3 |
| 5 | Background | 5 |
| 6 | Technical aspects of emergency calls in enterprise networks | 8 |
| 6.1 | Identifying a call as an emergency call | 8 |
| 6.1.1 | User actions | 8 |
| 6.1.2 | Signalling impact | 10 |
| 6.1.3 | Unauthenticated access | 12 |
| 6.2 | Obtaining and delivering the location of the caller | 12 |
| 6.2.1 | Format of location information | 13 |
| 6.2.2 | Obtaining location information for delivery | 13 |
| 6.2.3 | Location conveyance in SIP | 18 |
| 6.3 | Routing an emergency call to the appropriate SAP | 18 |
| 6.3.1 | Routing by the calling device | 19 |
| 6.3.2 | Routing by enterprise SIP intermediary | 20 |
| 6.4 | Delivering information to the SAP to allow a return call or verification call to be made | 21 |
| 6.4.1 | Delivery of caller identification | 21 |
| 6.4.2 | Delivery of device identification | 21 |
| 6.4.3 | Identifying a return call or verification call | 22 |
| 6.5 | Ensuring appropriate resources are available for an emergency call, return call or verification call | 22 |
| 6.6 | Ensuring appropriate media quality during an emergency call | 23 |
| 6.7 | Security considerations | 24 |
| 6.8 | Other aspects | 25 |
| 6.8.1 | Hosted users | 25 |
| 6.8.2 | Guest users | 25 |
| 7 | NGN considerations | 25 |
| 8 | Device considerations | 27 |
| 9 | Alternatives for roaming mobile and nomadic users | 28 |
| 9.1 | Establishing an emergency call when already signalling via a visited public network | 28 |
| 9.2 | Establishing an emergency call via a visited public network when other traffic is signalled directly via the enterprise network | 29 |
| 9.3 | Establishing an emergency call directly to a PSAP | 29 |
| 10 | Enterprise responsibilities | 29 |

| | | |
|-------------|---|-----------|
| 11 | Summary of requirements and standardisation gaps | 30 |
| 11.1 | Requirements on NGNs | 30 |
| 11.2 | Recommendations on enterprise networks | 30 |
| 11.3 | Standardisation gaps | 31 |
| | Bibliography | 32 |