

ISO/IEC 23916:2005-11 (E)

Information technology - Telecommunications and information exchange between systems - Corporate Telecommunication Networks - Signalling Interworking between QSIG and SIP - Call Transfer

Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terminology	2
4 Definitions	3
4.1 External definitions	3
4.2 Other definitions	3
4.2.1 User A	3
4.2.2 User B	3
4.2.3 User C	3
4.2.4 Call transfer	3
4.2.5 Single step call transfer	4
4.2.6 Call transfer by join	4
4.2.7 Call transfer by rerouteing	4
4.2.8 Corporate telecommunication Network (CN)	4
4.2.9 IP network	4
4.2.10 Private Integrated Services Network (PISN)	4
4.2.11 Private Integrated services Network eXchange (PINX)	4
5 Abbreviations and acronyms	4
6 Background and architecture	5
7 Procedures	5
7.1 Call transfers in QSIG	5
7.2 Call transfer in SIP	6
7.3 Scope of the interworking functions	6
7.3.1 QSIG side	6
7.3.2 SIP side	6
7.3.3 Discussion over transfer interworking functions	6
7.4 Mapping of numbers and URIs	9
7.5 UAC Processing	10
7.5.1 Receipt of a FACILITY message with callTransferComplete invoke APDU	10
7.5.2 Receipt of a FACILITY message with callTransferUpdate invoke APDU	10
7.5.3 Receipt of a FACILITY message with ssctInitiate invoke APDU	10
7.5.4 Receipt of a SETUP message with ssctSetup invoke APDU	11
7.5.5 Receipt of a FACILITY message with subaddressTransfer invoke APDU	12
7.6 UAS Processing	12
7.6.1 Receipt of a SIP REFER request	12
7.6.2 Receipt of a SIP INVITE request	17
7.6.3 Receipt of a SIP request with revised identity	18
8 Example message sequences	19

8.1	Call transfer by join where User B and C are SIP participants	19
8.2	Call transfer where User A is a SIP participant	20
8.3	Call transfer where User A is a SIP participant and where two gateways are used	21
8.4	Call transfer where User A and User B are SIP participants	22
8.5	Single step call transfer where User B is a SIP participant	23
8.6	Unsuccessful Single step call transfer where User A and User C are SIP participants	24
8.7	Single step call transfer where User A and User B are SIP participants	25
9	Security considerations	25