

ALCATEL-LUCENT OXO CONNECT

SMALL AND MEDIUM BUSINESSES

To compete and succeed in today's marketplace, small- and medium-sized businesses (SMBs) need enterprise-class products. With increased simplicity, confirmed robustness and being connected, – all at a lower cost – the Alcatel-Lucent OpenTouch® Suite for SMB helps businesses grow.



OXO Connect Compact



OXO Connect Small



OXO Connect Medium



OXO Connect Large

Alcatel-Lucent OpenTouch Suite for SMB offering is based on the new generation of communication server called OXO Connect. This robust communication server for small and medium companies is ready to connect and deliver cloud services with an extended capacity of up to 300. OXO Connect is the new generation of OmniPCX® Office RCE with a clear, future-proof direction for connecting to cloud services and delivering advanced services to SMBs. Moreover, OXO Connect has a simplified licensing built on a single Universal Telephony License and a new service offer that guarantees three years of free software upgrades. With this new offer, Alcatel-Lucent Enterprise starts a new era for SMB and confirms its leading position in this market.

OpenTouch Suite for SMB includes the following features:

- Teamwork and collaboration to help teams work together
- Enhanced off-site mobility to keep users connected to their business anytime, anywhere
- Wireline/wireless phones and efficient desktops to increase productivity
- Customer welcome to provide a professional greeting and increase customer satisfaction
- Network infrastructure that reduces costs by using a single infrastructure for voice and data services

FEATURES	BENEFITS
Connected	To deliver advanced cloud services: Rainbow, UC cloud based services and new remote management operation*
All-in-one solution	Modularity, flexibility and scalability to meet the needs of SMBs from 4 to 300 people in size
Conversation services on application-enabled desk phones, PCs and smartphones	Offer next-generation enterprise communication experience
User-centric communications experience across devices and locations	Provides full-featured access to enterprise communications services across devices while on site or off
Business communications services, including attendant, routing and messaging services	Increased communication efficiency for employees with new opportunities to reach contacts
Embedded voice-centric customer service	Increase customer satisfaction by improving call resolution
IP telephony infrastructure flexibility and software scalability	Reduces communication costs and enables the choice of network configurations and IP, IP/TDM or TDM endpoints, minimizing additional investment and enabling a smooth migration
Simplified and unified management	Reduces total costs of ownership for business communication and conversation services
Plug and play and zero touch deployment	Easy installation in full voice environment and/or converged voice/data environment at reduced cost
SIP at the core	Optimized installation ready for next generation of communications

* New services to be available through H1/2017

TECHNICAL SPECIFICATIONS

COMMUNICATION SERVICES

Conversation services

- Wideband VoIP, HD video
- Enterprise presence, including conversation status
- Desktop phone and mobile phone control from PC
- Universal directory access
- Single-identity: routing profiles
 - User-defined routing rules
 - Route to one or several devices
- Visual mailbox access
- Hotdesking



Rainbow services

- Cloud Hybrid connection with Rainbow Agent
- Rainbow Essential services (Beta Q2/2017)
- URL: www.openrainbow.com

Business communications services

- Unified Directory access, call by name
- Unified call log
- Unified Instant messaging
- Multiline telephony
- Call options, speed dial
- Audio conferencing
- Personal and enterprise call routing and forwarding
- Call-back features
- Multiline
- Call queuing
- Automatic route selection (ARS)
- Direct inward station access (DISA), substitution
- Call recording
- Call pickup
- Paging
- Call back
- Intrusion
- Call deflection
- Divert
- Joining
- Barring
- Paging
- Emergency call
 - with local notification service and history
 - Virtual number (locations, PSAPs)

Manager assistant

- Call filtering
- Hot line
- Multiple manager/secretary

Team and group

- Workgroup
- Key system
- Groupware supervision
- Audio notifications
- Group (broadcast, parallel, cyclical, sequential)

Desktop Communications

Alcatel-Lucent OmniTouch® 8082 My Instant Communicator Phone

- 7-inch capacitive and haptic touch screens
- Media player, screensaver and pictures
- Microsoft Outlook sync
- Audio conversation services
 - Unified directory
 - Session history
 - Visual messaging
 - Favorites
- Manager conversations
- Video calls
- SIP and web services
- 10/100/1000 Ethernet
- Bluetooth handset
- G722, wideband audio
- 802.3 AF PoE (class 3)

Premium DeskPhones

- Business communication services
- Embedded alpha-numeric keyboard
- Back light
- Display of participant name and contextual feature keys
- Hands-free, loudspeaker announcement
- Headset capability, such as Bluetooth
- Alcatel-Lucent NOE protocol
- Add-on supervision & smart display modules

DeskPhones

- Alcatel-Lucent IP Touch® 4018 phones
- Alcatel-Lucent 4019 Digital Phone
- Alcatel-Lucent 8001 & 8001G DeskPhone
- Alcatel-Lucent 8018 DeskPhone

Third-party SIP Phones

- Third-party SIP
 - Open SIP
 - Basic SIP

Alcatel-Lucent IP Desktop Softphone

- Softphone for business communication services
- Emulates Alcatel-Lucent 8068 Premium DeskPhone
 - 8068 look and feel
 - Full feature level (identical to 8068)
 - Smart display software module
- Supported platforms
 - PC
 - MAC
 - Android™

PIMphony™ Touch

- Maximum capacity: 200
- Microsoft Windows (Modern UI) for PC & tablet
- Easy deployment: Windows Store
- Services
 - conversation services
 - conference, record online
 - unified instant messaging
 - unified call log
 - unified visual voice mail
 - unified directory access
 - one number, routing profile, mobility management
 - favorites, programmable buttons
 - telephony presence

PIMphony

- Maximum capacity: 200
- Microsoft Windows (desktop mode)
- Conversation services on PC desktop
- Click-to-call
- Visual mail box, call log
- Supervision (single/multi site)
- Assistant mode (operator)
- PIM/directory
 - Microsoft Outlook
 - Act!
 - GoldMine
 - Microsoft Access
 - IBM Lotus Notes
 - LDAP
- Microsoft Windows
- VOIP softphone
- Routing rule configuration (unique number)

Alcatel-lucent My IC Plugin for Outlook

- Maximum connections: 25 TAPI 2.0/200TAPI 2.1
- Try and Buy
- Call dialog window
- Directory federation

- Presence federation
- Supervision aggregation
- Pounce service
- Yahoo, Skype
- Toolbar and context menu: SMS, Call, conference, transfer, IM, E-mail, Presence, Forwarding Rules

Alcatel-Lucent My IC Web

- Maximum capacity: 200
- Web-based client
- Dial by name
- Conversation services
- Conference & Call recording
- Instant messaging
- Visual voice mail
- Call log
- Routing rule configuration (unique number)

Mobility services

- One number service: up to three devices per user
- OpenTouch Conversation (iOS, Android, and Windows Phone), DECT & WLAN
- Unified access (from any devices)
- Nomadic to any phone
- Multiple/single call presentation
- Get call feature

On-site mobility

Alcatel-Lucent OmniTouch 8118/8128 WLAN and 8212/8232/8242/8262/8262Ex* DECT Handsets

- Business communication services
- Hands-free
- Headset capability
- Unified call log (AGAP set only)
- Integration with notification- and location-based services through Alcatel-Lucent Application Partner Program (AAPP)

On-site and off-site mobility

OpenTouch Conversation (OTCV)

- Maximum capacity: 50
- Software client with intuitive graphical interface for following platforms:
 - Apple iPhone
 - Google Android
 - Microsoft Windows Phone
- Single identity, business caller name presentation, communication history, on-call access to business services
- Easy deployment:
 - Apple AppStore
 - Google Play
 - Windows Store

- Services
 - conversation services
 - conference
 - unified instant messaging
 - unified call log
 - unified visual voice mail
 - unified directory access
 - SIP softphone (SIP companion iOS and Android)
 - fall back on cellular
 - one number, routing profile, mobility management
 - one number, routing profile, mobility management
 - favorites
 - telephony presence

Hospitality

- Max room (guest rooms and administrative sets) 300
- Integrated application (up to 120 rooms)
- Alcatel-Lucent OXO Connect Hospitality link (OHL) (Up to 300 rooms)
- Room management
- Wake up
- Multiset support
- Phone booth

Metering

- Metering counters
- Traffic counters
- Accounting link
 - Printout facilities
 - OHL driver
 - Over IP accounting
- Local call metering (XML/HTTP)
- Account code
- Duration-based forced disconnect

Conference

- 6-party conference bridge
- 3-party conference
- SIP conference module 4135 (5 parties)
- Conference on SIP devices (3 parties)

Attendant Services

- Call queuing
- Call overflow
- Alarm indication
- Attendant group features
- Busy lamp field
- Trunk and charging features
- User management features
- Add-on module
- Headset capability

- Attendant position (e.g., PC, Phone)
- Automatic attendant
- Visitor registration
- Normal/restricted mode control

Directory services

- UDA services
- Dial by name
- Directory aggregation via My IC Plugin for Outlook
- Abbreviated numbers: 2200
- Connection to external LDAP server
- Individual repertories
- Up to 5000 names
- Contact synchronization
- CRM integration

Messaging services

- Voice mail
 - Mailbox: 500
 - Max storage: 200 Hours
- IM
 - Unified IM among user's devices & Applications
 - Instant notification, Conversation, read status
 - System storage: Up to 5000, Up to 30 days
 - Up to 100 characters per IM
- Social network IM
 - via My IC Plugin for Outlook
- Text messaging (does not cohabit with IM)
 - Free/preprogrammed
 - Texte message (32 characters)
- Unified messaging
 - Voice mail in e-mail
 - Call log in e-mail

CUSTOMER SERVICES

Architecture

- All-in-one, fully integrated solution
 - Phone (Analog, Smart DeskPhones, DeskPhones, Premium DeskPhones, SIP, OTCV, Alcatel-Lucent IP Desktop Softphone, DECT, WLAN)
 - Mixed configuration: ACD, MLAA, SCR and communication services
 - ACD/MLAA/SCR ports: up to 16
- #### **Smart Call Routing (SCR)**
- Maximum entries: 10000
 - Routing criteria (customer code, CLI, DDI)
 - Routing destinations
 - ACD, MLAA, any destination
 - 2 per entry, planning based
 - Planning: 10

*Available in H1/2017

OmniTouch Call center Office (ACD)

ACD services

- ACD group: up to 8
- Group selection: longest idle time, rotating priority, fixed priority
- Priority levels between groups: 8
- Group overflow
- Queue: 1 per group
- Voice guidance: 7 per group
- Customer code

Agents features

- Maximum 32
- Agent application
- PC agent application (optional)
- Local application on IP Touch 8 and 9 series
- Agent status (logged out, wrap-up time, pause, log in)
- Free seating
- Call classification
- Personal statistics
- Screen pop ups/CRM
 - Embedded database
 - API to external CRMs
- Waiting time in queue for call
- Visual queue control
- Outbound call: free dialing, copy and paste, dial by name, LDAP

Supervision

- PC application
- Up to 8 simultaneous connected supervisors
- Real time ACD activity monitoring (agent and group)
- Three presentation modes (modular, grid, tool bar)

Statistic

- PC application
- System retains data for 14 months
- Automatic printing of predefined reports
- CSV export

Welcome greeting

Personal assistant

- Transfer options: 5

Automated attendant

- 2 levels (customizable)
- General mail box
- Welcome service
- Information service: 50 information boxes
- Company greeting remote customization - opening and closing hours

Attendant group

- Maximum attendant group: 8
- Maximum attendants per group: 8
- Night greeting
- Restricted mode
- Time range (daily, weekly, bank holidays)

Attendant console

- PC-based application

Multiple automated attendant (MLAA)

- Maximum languages per tree: 4
- 5 different trees
- 3 level per tree
- Voice prompts per language: 100
- Time range: 10
- Greeting messages
- Maximum greeting : 20
- Total duration: 320 s
- Individual, group, company
- Music on hold
- 16 seconds Default
- Customized up to 10 minutes
- External source
- Multiple company welcome
- Maximum entities (groups of users): 4
- 10 minutes music on hold per entity

External Applications

Video

- Doorphone, SIP, My IC Phone peer-to-peer video

Fax services

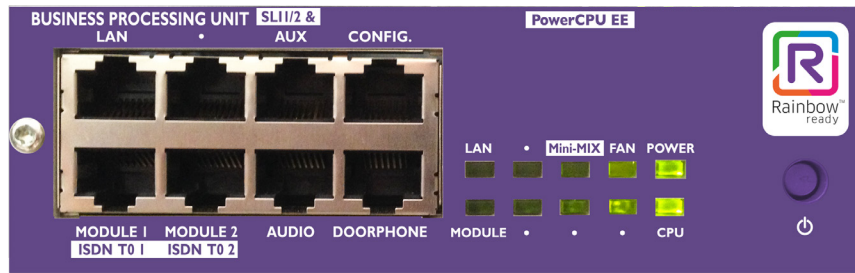
- G3, super G3 fall-back
- Automatic fax detection
- ITU-T T.38 UDP fax call (trunk)
- Fax over ITU-T G.711
- Fax ECM option

Operations Management

- OMC (PC-based application)
 - Access level (administrator, admin, operator)
 - Connectivity
 - IP (HTTPS)
 - ISDN (1 or 2 B)
 - Call back
 - Platform
 - Windows
 - Windows Server
 - Unique management access point
 - Customer database backup and migration
- Web-based portal
 - Diagnostic
 - Simple actions
- Local administration (from the phone device)

Serviceability

- Universal Telephony License
- NTP server/client
- SNMP (V2C)
 - MIB (read only)
 - TRAP: urgent alarm
- Alarming
 - Urgent/non urgent
 - Alarming in email
- History event
- Zero touch
 - DHCP
 - Plug-and-play
 - OmniSwitch® auto provisioning
 - OAW-AP1101
 - SIP profile import



INFRASTRUCTURE

Capacity

- 300 users (max devices)
- BHCA 1500
- Capacity limits (overview)
 - Analog (2 wires) 300
 - IP and SIP 250
 - TDM 288

Architecture

- All-in-one call server
- Switching: TDM and IP + hybrid

Software

- Linux: Linux Kernel 2.6.29.6

Hardware

CPU board

- PowerCPU EE (PowerPC e300)
 - Covers
 - Chassis (compact, S, M, L)
 - All requirements and options
 - Memory Storage Daughter Board (MSDB): 8GB (EMMC)
 - Hardware watchdog
 - 16 VoIP DSP channel
- Daughter board (optional)
 - AFU: CD-player, door phone, loudspeaker
 - HSL1 or HSL2 : for multiple cabinet interconnection (S,M,L chassis)
 - MiniMIX 2/0/2 (compact chassis only)
 - VOIP 32 (increase to 48 VOIP channels)
 - VOIP 64 (increase to 60 VOIP channels)

Chassis

- Compact (C) Edition
 - AC/DC power supply: external
 - Backup battery: external (optional)

- Installation: office environment, wall-mounted
 - 1 free modular slot
 - No fan
 - Height: 70 mm (2.75 in.)
 - Width: 345 mm (13.58 in.)
 - Depth: 340 mm (13.38 in.)
 - Weight (unpacked): 5.1 kg (11.24 lb.)
 - Power maximum/typical: 40 W / 25W
 - Noise level: 0
- Chassis: racks S, L, M
 - Standard in S, M, L Editions
 - Fan
 - Rack (19-inch rack)
 - AC/DC power supply: Integrated
 - Backup battery: Internal / external (Option)
 - Installation: stack, rack, wall-mounted
 - Combination: up to 3 chassis, maximum of 27 free slots
 - Small (S) 1U
 - 2 free modular slots
 - Height: 66 mm (2.60 in.)
 - Width: 442 mm (17.40 in.)
 - Depth: 400 mm (15.75 in.)
 - Weight (unpacked): 6 kg (13.22 lb.)
 - Power maximum/typical: 70W/28W
 - Noise level: maximum 40dBA
 - Medium (M) 2U
 - 5 free modular slots
 - Height: 111 mm (4.37 in.)
 - Width: 442 mm (17.40 in.)
 - Depth: 400 mm (15.75 in.)
 - Weight (unpacked): 11 kg (24.25 lb.)
 - Power maximum/typical: 88W/40W
 - Noise level: Max 41dBA
 - Large (L) 3U
 - 8 free modular slots
 - Height: 154 mm (6.06 in.)
 - Width: 442 mm (17.40 in.)
 - Depth: 400 mm (15.75 in.)
 - Weight (unpacked): 13 kg (28.7 lb.)
 - Power maximum/typical: 108W/57W
 - noise level: Max 45dBA

Interface boards

- Terminals
 - Digital Interfaces UAI 4, 8, 16
 - Analog Interfaces SLI 4, 8, 16
- Network
 - BRA boards (T0) 2, 4, 8
 - PRA boards (T1, T2) 1
 - Analog trunk(1) 2,4
 - Mixed boards T0/UA/SL 2/4/4, 4/4/8, 4/8/4
 - Analog mixed boards APA/UA/SL 4/4/4-1, 4/4/8-1, 4/8/4-1
 - Mini-MIX2/0/2
- LAN
 - Ethernet LANswitch LanX 16 10/100/1000 BT auto-sense unmanaged

Application partner interfaces (AAPP)

- SIP
- CSTA, TAPI 2.0, TAPI 2.1
- Alcatel-Lucent Hospitality Link
- Local call metering application (LCMA)
- Alcatel-Lucent OmniVista® 8770 Accounting and VoIP Ticket Collector, call detail records
- QSIG
- Urgent alarm (SIP/ISDN trunk)

SIP: Session Initiation Protocol

- SIP public trunk
- SIP private trunk
- SIP peering
- SIP end points (local users)
- Alcatel-Lucent SIP devices
- Third-party devices (AAPP)
- SIP capabilities
 - RTP direct
 - Multiple RTP flow
 - SIP notification (IM)
 - Video (RTP direct)
- Public configurable SIP number format
- Static NAT (SIP ALG/ SBC less topology)
- Header to routing based

- Support for multiple SIP registrars (Per DDI, per range)
- Backup proxy (immediate swap)
- Dual Inband DTMF/ RFC 2833

IETF standards

- SIP RFC
 - Trunk standards compliance
 - RFC 3261 RFC 3261 RFC 3262
 - RFC 3264 RFC 2327 RFC 2833
 - RFC 2822 RFC 3515 RFC 360
 - RFC 3966 RFC 3398 RFC 3323
 - RFC 3324 RFC 3325 RFC 3892
 - RFC 1321 RFC 2617 T38 ITU-T
 - RFC 3263 RFC 4244 RFC 4904
 - RFC 3605 RFC 3326 RFC 3840
 - RFC 4028 RFC 3581 RFC 4916
 - RFC 3052 RFC 3327 RFC 6140
 - TS 24.229
 - Phone standards compliance RFC 3261
 - RFC 2327 RFC 3515 RFC 4733
 - RFC 3891 RFC 3420 RFC 3265
 - RFC 3550 RFC 3551 RFC 3264
 - RFC 3842 RFC 3966 RFC 3892
 - RFC 1321 RFC 2616 RFC 2617
 - RFC 5373 RFC 3398 RFC 3323
 - RFC 3325 RFC 4028
- RTP RFC: 1889, 1890, 2198, 3550, 3551, 3711, 3362
- SIP best practices: RFC 4504

VoIP

- G722, audio wideband
- G.711 A-law and μ -law, G.723.1A, G.729, AB audio
- G711, G722, G723.1, G729
- Call admission control
- Automatic compression algorithm allocation
- Dynamic jitter buffer, echo cancellation, packet loss concealment (PLC), VAD: silence suppression and comfort noise generation
- DTMF Q23, robust DTMF relay, RFC 2833
- In band DTMF (Q1 2015)
- Generic signal qualification and modem transport
- Anti-saturation mechanism; backward and forward automatic gain control
- Embedded signal quality diagnostic tool
- Quality of service: TOS or DiffServ tagging, 802.1 p/Q

Video

- Codec path through (RTP direct)
- LifeSize Video Center (AAPP)
- Door phone(s) integration
- Peer-to-peer (SIP device/trunks)

Networking

Private networking protocols

- SIP networking
- H323 networking
- ISVPN (T0/T2)
- QSIG-BC (DLTO DLT2)

ARS (automatic route selection)

- MAXimum of 3000 entries
- Least cost routing
- Multicarrier access
- ARS overflow on busy carrier
- Time range and calendar based

Multisite

- Up to 5 sites
- PC-based supervisor application
- Directory synchronization (OMC)

Security

Authentication

- User authentication: login/password (4 or 6 digits)
- Management authentication: login/ password (8 characters)
- HTTPS: server certificate self-signed
- System certificate export
- System certificate import from Public authority
- Call server compliant with HTTP proxy

Traffic filtering

- Cal server
 - ARP spoofing protection
- Client/device (IP Touch / MyIC 8082)
 - ARP spoofing protection
 - PC port filtering

SIP perimeter defense

- SIP method authentication (RFC 2617) for SIP phones and public SIP trunking
- Quarantine/blacklisting due to abnormal traffic (too many messages in a short time)
- Automatic blacklist for hostile IP addresses
- Thresholds for identifying hostile IP addresses
- Connection tracking

Encryption

- SSLv3 for secure HTTP session
- HTTPS: 2048 bits RSA keys

User authorization to communication services

- User account lock notification (alarm, e-mail)
- 4 or 6 digit password (user)
- PIN codes for calls (barring and substitution)
- Barring categories
- PIN for remote substitution (DISA)
- Remote and Local LAN access locked after repeated authentication errors
- Normal/restricted modes, based on time ranges
- User rights to service

Miscellaneous

- Network time protocol (NTP) server and client for network-wide time synchronization
- Remote access by modem:
 - List of authorized CLI
 - Call back to configured number
- HTTPS for management and end-user applications

Alarm server

- Live and notification call services with location information
- Periodic live call for proactive security
- Alarm calls with specific alarm button, man down, shock, “no movement” detection
- Key events calls for end user signaling task progress
- Status call for updating handset status to central server
- Alarm server
 - T2 connectivity
 - SIP connectivity
- Isolated worker protection device (PTI)
- DECT

DECT radio

- Radio DECT/GAP/AGAP
- Radio frequency range
 - 1.88 GHz to 1.90 GHz (Europe)
 - 1.91 GHz to 1.93 GHz (South America)
 - 1.92 GHz to 1.93 GHz (United States) with power adaptation
- Alcatel-Lucent 4070 DECT Base Station
 - Six simultaneous communications
 - 2 UA interfaces
 - Maximum devices registered: 200
 - Inline powered
- Alcatel-Lucent 8340 and 8340-C Smart

IP-DECT Access Points

- 11 simultaneous communications per AP
- 16 AP
- Maximum devices registered: 50
- POE or POE injector
- Outdoor versions
- Integrated DAP manager for automated configuration and handset roaming
- Over-the-air synchronization
- Mixed DECT and IP DECT configuration

WLAN

OmniAccess® WLAN access points and WLAN controllers

- IEEE 802.11a/b/g/n
- IEEE 802.11i
- Radio frequency (RF) range
 - 2.4 GHz to 2.4835 GHz ("b" and "g")
 - 5.150 ~ 5.250 GHz (low band)
 - 5.250 ~ 5.350 GHz (mid band)
 - 5.470 ~ 5.725 GHz (Europe)
 - 5.725 ~ 5.850 GHz (high band)
- **Automated radio coverage**
 - Dynamic RF management for AP channel power and channel optimal setting
 - Self-healing around failed access points

Wireless security

- WEP, WPA, WPA-PSK, WPA2 and WPA2-PSK
- Integrated stateful firewall
- Rogue access point detection and containment
- Wireless IDS/IPS

Quality of service

- Standardized
 - Over-the-air QoS: 802.11e
 - WMM (EDCA)
 - 802.11e Power Save (U-APSD)
 - 802.11e Traffic Specification (TSPEC)
- SRP mode
- Connection admission control with graceful load balancing
- 802.1p DiffServ marking

Call persistency

- Proxy mobile IP for Layer 3 handover
- Fast handover - WPA2 opportunistic key caching
- Voice-aware scanning
- Voice-aware 802.1x re-authentication

International directives

EC & EU Directives

- 1999/519/EC: SAR
- 2009/125/EC: Ecodesign
- 2011/65/EU: ROHS
- 2012/19/EU: WEEE
- 2014/53/EU: RED
- 2014/35/EU: LVD
- 2014/30/EU: EMC
- 2014/34/EU: ATEX

Safety

- IEC 60950-1
- UL 60950-1

SAR

- Cenelec EN50360
- Cenelec EN50385
- Cenelec EN62311
- FCC OET 65 and IEEE 1528

EMC

- IEC-CISPR22 Class B
- IEC-CISPR32 Class B
- Cenelec EN55022 Class B
- Cenelec EN55032 Class B
- FCC Part 15B
- IEC-CISPR24
- Cenelec EN55024
- IEC-EN61000-3-2
- ETSI-EN 301 489-06: DECT
- ETSI-EN 301 489-17: Bluetooth and WLAN

Radio

- ETSI EN 300 328: 2.4 GHz
- ETSI EN 301 893: 5 GHz
- ETSI EN 301 406: DECT
- FCC Part 15 Subpart C and D and E

EX environment

- Cenelec EN 60079-0
- Cenelec EN 60079-11

Miscellaneous environments

- IEC 60945: maritime

Environmental conditions

- ETSI - ETS 300 019 Part 1-1: storage
- ETSI - ETS 300 019 Part 1-2: transportation
- ETSI - ETS 300 019 Part 1-3: in use

Telecom

- ETSI EG 201 121
- ETSI ES 203 021
- ETSI TBR 021, 010, 022, 003, 033, 004, 034, 008, 038
- ITU-T H.323
- FCC part 68
- Canada CS03

Over voltage and over currents

- ITU-T K.21, K.22

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