

2N IP Glossary of Terms

- **802.1x** – an IEEE Standard for port-based Network Access Control (PNAC). It is part of the IEEE 802.1 group of networking protocols. It provides an authentication mechanism to devices wishing to attach to a LAN or WLAN.
- **API (Application Programming Interface)** – a set of subroutine definitions, protocols, and tools for building application software.
- **Bandwidth** – The amount of data that can be carried from one point to another via a network within a given time period (usually one second).
- **Codec** – A software process that encodes and decodes a digital data stream or signal. Both audio and video codecs are essential to IP media transmission as the media is both compressed and transmitted as data packets.
- **DHCP Server** – Dynamic Host Configuration Protocol is a network protocol that enables a server to automatically assign an IP address to a computer or IP device from a defined range of numbers configured for a given network.
- **DTMF (Dual Tone Multi-Frequency)** – an audible signaling system for identifying keys pressed on a telephone keypad.
- **Dynamic IP Address** – An IP address that is given by a DHCP server (commonly found on a router). This address is ‘leased’ to the device and may change upon lease expiry.
- **File Transfer Protocol (FTP)** – A standard network protocol used for the transfer of computer files between a client and server on a computer network.
- **G.729** – an audio codec used in telephony which offers high quality at lower bandwidth than the standard G.711 telephony codec.
- **HD (High Definition)** – A video resolution of high pixel count. Commonly, video resolutions above 720 lines such as 1280 x 720 are considered HD.
- **IP Address** – a unique string of numbers separated by full stops that identifies each computer or digital device using the Internet Protocol to communicate with one another over a network (eg. 192.168.1.100).
- **LTE - ‘Long Term Evolution’** - A 4G mobile communications standard which sees data speeds up to 10x faster than 3G.
- **Network Switch** – A hardware device that connects IP devices together on a network by using packet switching to receive, process and forward data to its intended destination.
- **NFC (Near Field Communication)** – a short range wireless connectivity standard that uses magnetic field induction to enable communication between devices. Commonly found in mobile phones or utilized by contactless payment systems.
- **NVR (Network Video Recorder)** – A software program that records audio and video to a disk drive streamed from IP CCTV products.
- **ONVIF (Open Network Video Interface Forum)** – An open industry forum with the aim of standardising communication between IP-based security products. A device compatible with ONVIF Profile S subscribes to standard video and audio streaming, PTZ control and relay activation.
- **PBX (private branch exchange)** – A phone system within an organisation that switches calls between users on local lines while optionally allowing users to share a certain number of external phone lines. In IP telephony a PBX, Proxy or ‘SIP/VOIP Server’ are generally terms for the same thing.
- **Peer to Peer** – A call routed between two devices directly with the requirement for a third party device such as a proxy.
- **PoE (Power over Ethernet)** – a technology that transmits power over Ethernet cables in addition to the packet data for the purposes of powering the end device. PoE is often used to provide a one cable solution, negating the need for a PSU (Power Supply Unit).
- **REX (Request to Exit)** – A device (such as an exit button or PIR) that tells the door controller or intercom to initiate door release. A REX device also informs the system that the exit process was initiated from the secure side of the door preventing a forced door signal.
- **RFID (Radio-Frequency Identification)** – The use of electromagnetic fields for identification purposes. An RFID card, fob or tag consists of a small chip and antenna that passes information to a reading device upon proximity. Used in the security industry for access control.
- **Router** – An IP device that connects two networks. In a domestic scenario it connects a LAN (local area network) to the Internet (WAN – Wide Area Network). It often serves additional functions such as acting as a DHCP server.
- **RTP (Real-time Transport Protocol)** – A standardised means of delivering audio and video over an IP network. Commonly used in entertainment and telephony applications.
- **RTSP (Real Time Streaming Protocol)** – a network control protocol designed for use in entertainment and communications systems to control streaming media servers. The protocol is used for establishing and controlling media sessions between end points.
- **SIP (Session Initiated Protocol)** – A signaling protocol used for initiating, maintaining, changing and terminating real-time sessions. SIP concerns audio, video and messaging between endpoints such as IP handsets, softphone software and IP intercoms.
- **SNMP (Simple Network Management Protocol)** – a popular protocol for network management. It is used for collecting information from - and configuring - network devices such as servers, printers, hubs, switches and routers on an Internet Protocol (IP) network.
- **Static IP address** – An IP address that is defined by the user.
- **Subnet** – A part or section of a larger network as defined by the IP address (eg. 192.168.1.X). Devices within the same subnet require no special routing in order to communicate with each other.

2N IP Product Range

2N IP/LTE Verso



- Modular intercom configurable to meet your needs
- Intuitive touch display for outdoor use with up to 2000 contacts in the structured list
- Wide-angle HD camera with infrared night vision
- Easy integration with IP telephone systems using SIP protocol support
- Integration with IP camera systems, VMS and NVR through ONVIF
- RFID smart card reader with NFC support
- Wireless intercom using 4G mobile network (LTE only)



2N IP Vario



- Graphics display
- Easy integration with IP camera systems and access control systems
- Combines LCD screen, call buttons, keypad, RFID card reader, camera and relays
- Snapshot of the visitor to email
- Buttons have an unlimited lifecycle
- Easy integration with IP telephone systems using SIP protocol support
- Extender units easily increase the number of buttons up to 54



2N IP Force



- Extremely robust & harsh environment protection
- Wide-angle HD camera with infrared light/night vision
- 10W loudspeaker
- IP camera systems through the ONVIF protocol
- RFID smart card reader with NFC/Wiegand support
- Highly durable antivandal aluminum housing
- Easy integration with IP telephone systems using SIP protocol support



2N IP Safety



- The most durable IP intercom on the market
- Distinctive orange color, easily recognizable in emergency situations
- 10W loudspeaker
- Easy integration with IP telephone systems using SIP protocol support
- Integrates with external IP cameras for video calls
- Durable buttons distinctively backlit in blue
- Highly durable aluminum housing with an antivandal construction
- Tamper switch detecting unauthorized device intrusions



2N IP Base



- Compact IP intercom with wide-angle HD camera
- Quick installation
- Durable aluminum frame
- Excellent audibility in all conditions
- Inputs and outputs ready for connecting an electric lock or other equipment
- Basic model can be extended with a 125 kHz or 13.56 MHz RFID card reader module



2N IP Uni



- Designed for easy installation
- Durable stainless steel cover suitable for outdoor applications
- Output for lock control
- Pictograms signalling the status of the intercom
- Tamper switch
- Easy integration with IP telephone systems using SIP protocol support



2N IP Solo



- Makes the entrance part of any Smart Home
- Sharp video day and night
- Stylish and durable
- Camera with night vision
- Easy integration into the home automation system
- Picture to email
- Both surface and flush mounted installations
- External camera
- Calls to mobile phone or tablet
- Same functionality as IP Verso



2N Indoor Touch



- Luxury design and high-tech processing
- 7" touch screen
- Audio and video communication in HD quality
- Video monitoring of 2N IP intercoms
- Video voicemail or visitor's snapshot in case of a missed call
- Easy installation and remote administration in large residential apartments
- Home automation integration using OS Android
- Support of doorbell button by the apartment or house entrance

2N Access Unit



- Access card reader embedded in a controller creating a single compact device
- Possibility to open doors using a smartphone supporting Bluetooth or NFC
- One single cable for both communication and power
- Suitable for indoor and outdoor installation
- Smart status monitoring with email notifications
- Provides complex solutions for access control system
- Easy integration with camera, attendance and other systems
- Available in Bluetooth, RFID, Keypad and Fingerprint models

