

# Art. 2221 VX2200 Audio/video IP interface

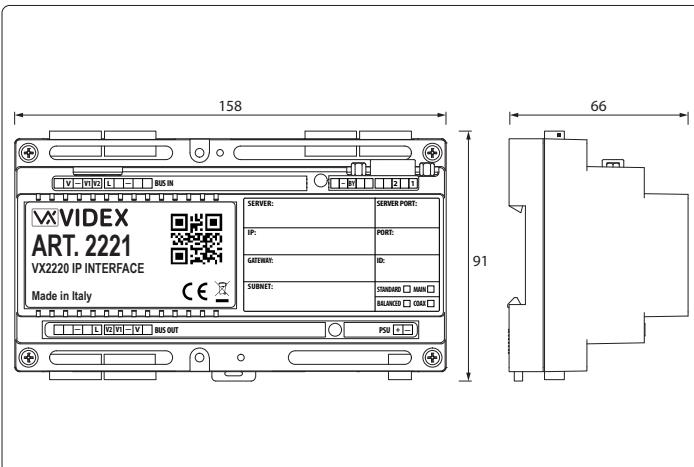


Fig. 1 Front view and side view

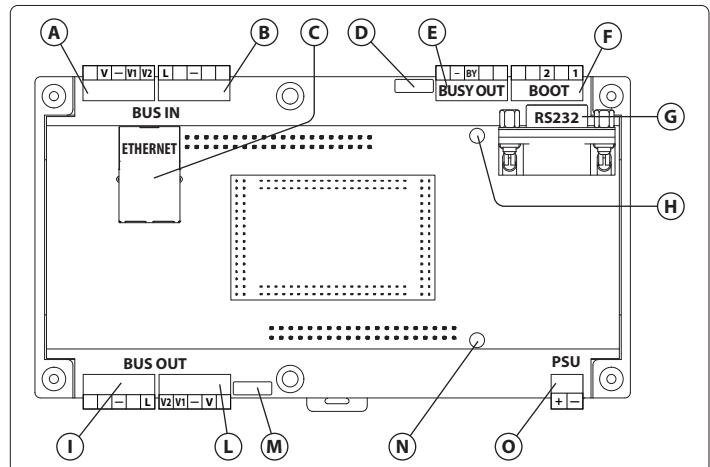


Fig. 2 Internal electronics

## DESCRIPTION

The Art. 2221 is a device that enables the VX2200 digital system to connect to one or more concierge stations.

It includes one BUS line input (from door panels), one BUS line output (towards apartments) and one Ethernet interface through which the unit is connected to the LAN.

The concierge station can be a "VX2200 IP Concierge Station" (Art. CSW2220).

Systems can include one or more Art. 2221 interfaces and one or more Art. CSW2220.

The Art. CSW2220 includes both the concierge server and client.

## LEGEND

- (A) Video input (BUS IN)
- (B) VX2200 BUS line connection from door panels (BUS IN)
- (C) Ethernet connection to the LAN
- (D) BUS IN audio calibration potentiometer
- (E) Busy OUT signal
- (F) Boot connector (BOOT)
- (G) Serial RS-232 9DB female connector for debugging purposes
- (H) BUS IN status LED (red)
- (I) VX2200 BUS line to the riser (BUS OUT)
- (L) Video output (to the riser)
- (M) BUS OUT audio calibration potentiometer
- (N) BUS OUT status LED (green)
- (O) 12Vdc - 0.7A power supply input (PSU)

## INITIAL SETUP

The Art. 2221 can be set up through the Videx IP Wizard software. The following describes the steps for setting up and managing the system.

## DETECTING DEVICE

Connect the Art. 2221 on the same LAN as the PC where the Videx IP Wizard Software is going to be launched from and power up the system.

Open the software and press "Detect Videx Devices": the user will see one violet line for each Art. 2221 detected. The items detected during the discovery will include all devices on this site.

When the device is in configuration mode

the red LED will blink 0.5s ON and 0.5s OFF. During this state the device functionality is disabled until the wizard releases the device. The user can easily modify the generic parameters ID, IP address and description simply typing in the relevant fields. The wizard will warn of any invalid entries.

Pressing the "Edit Properties" button will start the reading of the complete device parameters and display them in a new window.



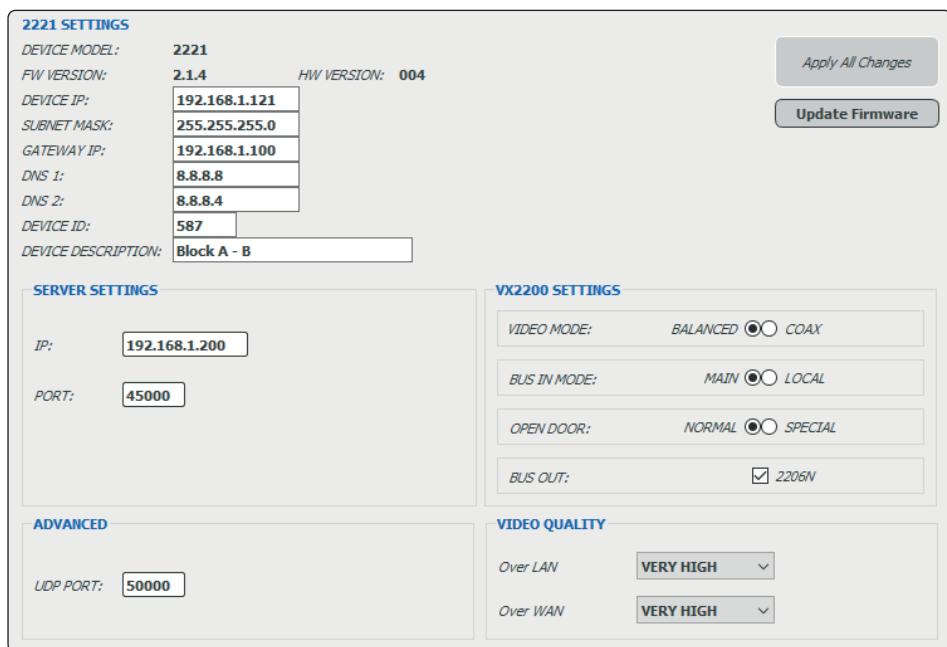
Fig. 3

**Art. 2221** VX2200 Audio/video IP interface**CHANGING PARAMETERS**

The user can change all the device parameters through the Art. 2221 Settings page. The following describes each section of the setting page:

- Basic Settings section
- Server Settings section
- VX2200 Settings section
- Advanced Settings section
- Video Quality section

Changing any of the parameters of these subsections will enable the "Apply All Changes" button. Click on it to send the new settings to the device. A progress bar will appear followed by a message regarding the upload success.



**2221 SETTINGS**

DEVICE MODEL:	2221
FW VERSION:	2.1.4
DEVICE IP:	192.168.1.121
SUBNET MASK:	255.255.255.0
GATEWAY IP:	192.168.1.100
DNS 1:	8.8.8.8
DNS 2:	8.8.8.4
DEVICE ID:	587
DEVICE DESCRIPTION:	Block A - B

**SERVER SETTINGS**

IP:	192.168.1.200
PORT:	45000

**VX2200 SETTINGS**

VIDEO MODE:	BALANCED <input checked="" type="radio"/> COAX <input type="radio"/>
BUS IN MODE:	MAIN <input checked="" type="radio"/> LOCAL <input type="radio"/>
OPEN DOOR:	NORMAL <input checked="" type="radio"/> SPECIAL <input type="radio"/>
BUS OUT:	<input checked="" type="checkbox"/> 2206N

**ADVANCED**

UDP PORT:	50000
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**VIDEO QUALITY**

Over LAN	VERY HIGH
Over WAN	VERY HIGH

**Fig. 4****BASIC SETTINGS SECTION**

This section concerns the settings that can be found in every Videx IP device.

- Device IP: Internet Protocol address. It must be unique in the LAN. (Default: 192.168.1.201)
- Subnet Mask ( Default: 255.255.255.0)
- Gateway IP ( Default: 192.168.1.100)
- DNS 1 ( Default:8.8.8.8)
- DNS 2 ( Default:8.8.8.4)
- Device ID: identifier of the Videx device. It must be unique for this site domain. ( Default: last two bytes of MAC address)
- Device description 30 characters max. (Default: "VX2200 IP Interface [id])

**2221 SETTINGS**

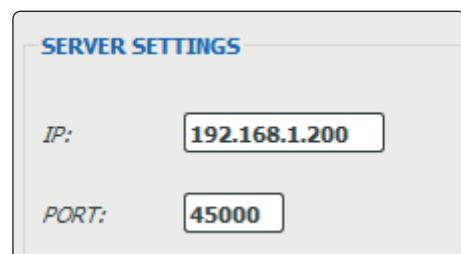
DEVICE MODEL:	2221
FW VERSION:	2.1.4
DEVICE IP:	192.168.1.121
SUBNET MASK:	255.255.255.0
GATEWAY IP:	192.168.1.100
DNS 1:	8.8.8.8
DNS 2:	8.8.8.4
DEVICE ID:	587
DEVICE DESCRIPTION:	Block A - B

**Fig. 5****SERVER SETTINGS**

The IP parameters for connecting to the Server.

- Server IP: Internet Protocol address of the PC running as server.  
Default value:192.168.1.200;
- Port : Server Udp destination / source port for incoming / outgoing packets.  
Port must be between 5000 and 65535. Default value: 40000.

Both paramters are valid when the border and the font of the input frame are black, and invalid when bold red.



**SERVER SETTINGS**

IP:	192.168.1.200
PORT:	45000

**Fig. 6**

## VX2200 SETTINGS

This section is composed of two mutually exclusive settings.

- Bus in mode → MAIN or LOCAL (Default: MAIN).

The VX2200 door panels could be set to either MAIN mode for addressing more than 180 apartments or local mode when addressing up to 180 apartments. When set to LOCAL, the entrance panels connected to the input of the 2221 can only call the apartments connected to the output of the 2221. If the 2221 is set to local, the door panel must also be set to local, otherwise set both the 2221 and the door panels on the input of the 2221 to MAIN mode.

- Video mode → BALANCED or COAX ( Default: BALANCED).

This specifies the video signal type connected to the VIDEO IN, and the signals from VIDEO OUT to the riser.

- BALANCED → **V1** and **V2** to VIDEO IN; **V1** and **V2** from VIDEO OUT;
- COAX, **V** and – to VIDEO IN; **V** and – to VIDEO OUT.

- Open door: Choose 'Special' mode when lock release should be restricted to only the concierge (Apartments are not allowed to release the door). Must be used with door panels that also support the 'Special' door command feature. Choose 'Standard' for all other situations.

- BUS OUT: Select this when the bus out is connected to Art. 2206N block exchangers. (Default is unchecked).

VX2200 SETTINGS		
VIDEO MODE:	BALANCED	<input checked="" type="radio"/> COAX
BUS IN MODE:	MAIN	<input checked="" type="radio"/> LOCAL
OPEN DOOR:	NORMAL	<input checked="" type="radio"/> SPECIAL
BUS OUT:	<input checked="" type="checkbox"/> 2206N	

Fig. 7

## ADVANCED SETTINGS

The port used by the Art. 2221 for streaming media and data in both directions.

This parameter can be left to the default (50000) when all the IP devices are working on the same LAN. When the devices are on different LAN's the port must be unique on each device on that LAN to allow the configuration of port forwarding rules.

ADVANCED	
UDP PORT:	50000

Fig. 8

## VIDEO QUALITY SECTION

In this section the user can specify the frame rate (and then the quality) of the video stream coming from the Art.2221. It has two different parameters, for two different scenarios:

- Over WAN: when the stream is directed to a device on a different LAN (over internet)
- Over LAN: when the stream is directed to a device on the same LAN.

Both parameters have 5 options:

- Very low → MAX 150 Kbps
- Low → MAX 250 Kbps
- Medium → MAX 500 Kbps
- High → MAX 800 Kbps
- Very high → MAX 3000 Kbps

The default value for Over LAN frame rate is 5, while 3 is the default for the Over WAN.

When working over the internet, set the Over WAN to a lower value if the router cuts off the connection as the video stream starts.

VIDEO QUALITY	
Over LAN	VERY HIGH
Over WAN	VERY HIGH

Fig. 9

**CALIBRATION**

The calibration allows the user to tune the audio on either door and apartments VX2200 buses.

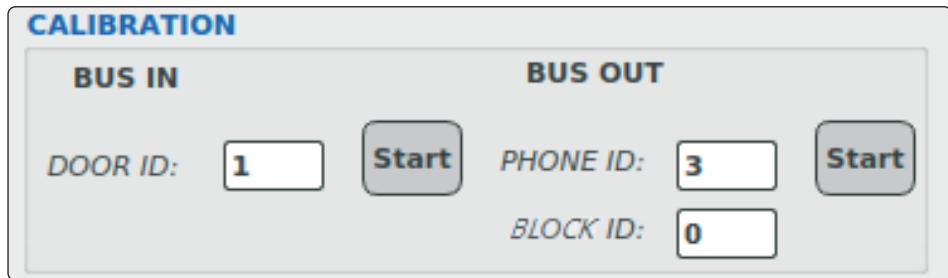


Fig. 10

The section is enabled by clicking seven times consecutively on the **VIDEO MODE** label (in VX2200 settings).

It remains enabled until the Wizard is closed.

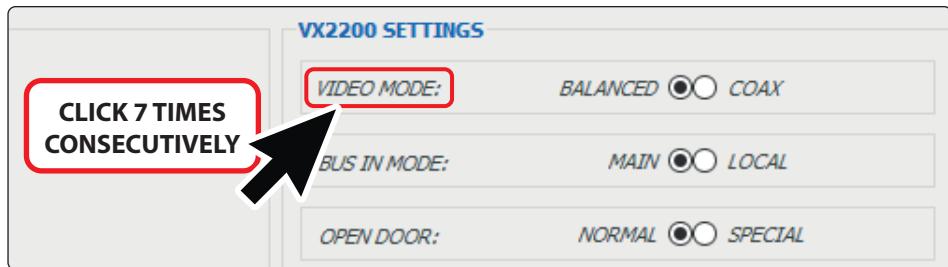


Fig. 11

**DOOR PANEL CALIBRATION**

1. Choose one of the VX2200 doors panel to make the calibration.
2. Set speaker and microphone volume to 0 by turning the door panel volume pots completely off.
3. Start the procedure specifying the VX2200 door id in the "Door Id" field.  
If the routine starts correctly, the calibration bar appears.
4. Move the potentiometer **D** placed on the BUS IN side until the minimum value on the top of the bar is reached.
5. To exit the setup click the **End Call** button below the bar, or end the call from the panel.

**APTS CALIBRATION**

1. Choose one of the VX2200 intercoms to make the calibration.
2. Start the procedure specifying the VX2200 phone id in the "Phone Id" field.  
If the routine starts correctly, the calibration bar appears and the VX2200 starts ringing (Block Id is needed only when BUS OUT under VX2200 Settings is checked).
3. Answer the call on the intercom: the calibration value will appear on the top of the bar.
4. Move the potentiometer **I** placed on the BUS OUT side until the minimum value on the top of the bar is reached.
5. To exit the setup click the **End Call** button below the bar, or end the call at the intercom.

...lower value = better audio calibration...

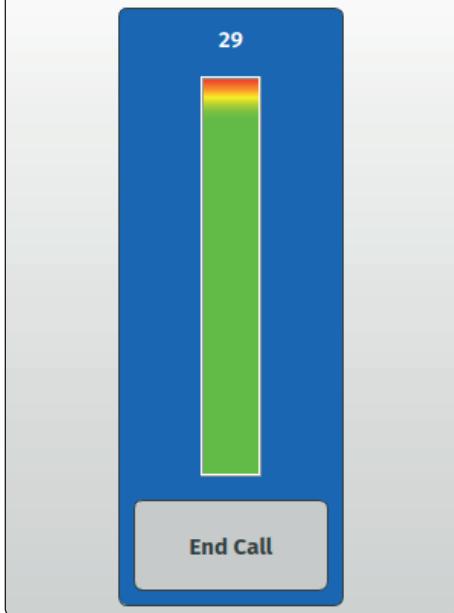


Fig. 12

## FIRMWARE UPGRADING

The Art. 2221 firmware upgrade can be launched using the "Videx IP Wizard software".

Follow the steps described in "Detecting device" paragraph for opening the "Settings page" of the device.

Click the "Update Firmware" button on the right corner of the settings page: the following message will appear.

When the Art. 2221 is in update mode the green LED blinks once every 2 seconds. After pressing "Yes", the user must select the file that is going to be written and then launch the routine. When the upgrade is in progress, a progress bar appears and the red LED flashes 1.5 seconds ON and 1.5 seconds OFF.

If the routine ends without any error, the wizard will show the message below.

Click "OK" and then release the device: now the Art. 2221 is in normal mode

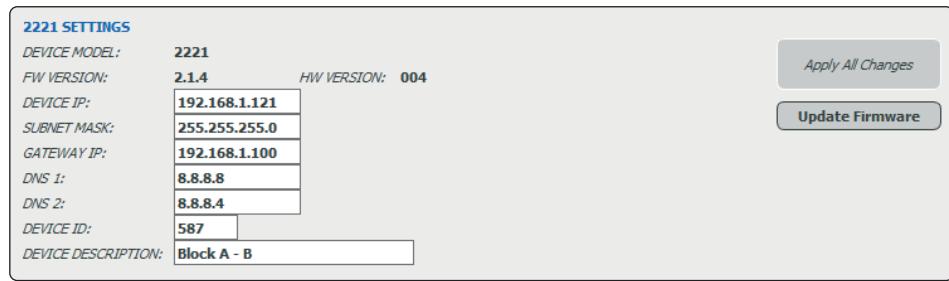


Fig. 13

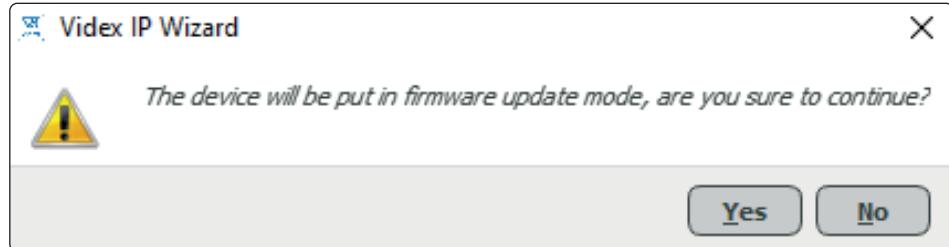


Fig. 14

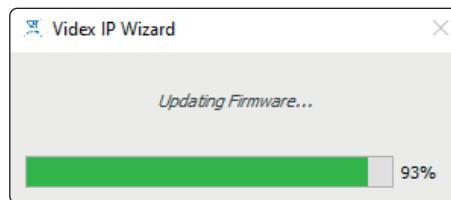


Fig. 15

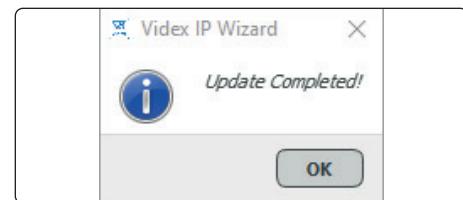


Fig. 16

## NORMAL MODE

In normal mode the Art. 2221 can manage two different media streams, one from / to the BUS IN and one to /from the BUS OUT, at the same time, using a single udp port (see "Advanced Settings"). The streams can be directed to a Art. CSW2220 Concierge or to another Art. 2221 installed in the same site domain. For linking to a concierge see the Art. CSW2220 manual for more information.

The green and red LED's can be used to verify the state of the Art. 2221.

The table here below shows the correspondence between LEDs timing and bus status.

BUS STATE	LED ON	LED OFF
BUS error	1s	1s
BUS FREE → server not found	100ms	4,9s
BUS FREE → server found	4,9ms	100ms
CALL in progress (ringing)	2s	500ms
Conversation in progress	200ms	200ms

LED Green is for BUS OUT. LED Red for BUS IN

**CONNECTIONS TERMINAL SIGNALS****BUS IN**

-	Doors BUS line ground reference	
<b>L</b>	Doors BUS line	
<b>V2</b>	Balanced video signal V2 sync.	Connect these signals only when Balanced video input mode is selected (see " <b>VX2200 Settings</b> " - <b>Fig. 7 on page 3</b> )
<b>V1</b>	Balanced video signal V1 sync. (balanced video signal mode).	
-	Composite video signal ground reference	Connect these signals only when Coax video input mode is selected (see " <b>Initial setup</b> " - <b>Fig. 4 on page 2</b> )
<b>V</b>	Composite video signal (coax video signal mode)	

**BUS OUT**

-	Doors BUS line ground reference	
<b>L</b>	Doors BUS line	
<b>V2</b>	Balanced video signal V2 sync.	Connect these signals only when Balanced video input mode is selected (see " <b>VX2200 Settings</b> " - <b>Fig. 7 on page 3</b> )
<b>V1</b>	Balanced video signal V1 sync. (balanced video signal mode).	
-	Composite video signal ground reference	Connect these signals only when Coax video input mode is selected (see " <b>Initial setup</b> " - <b>Fig. 4 on page 2</b> )
<b>V</b>	Composite video signal (coax video signal mode)	

**BOOT**

<b>1</b>	Boot terminals	
<b>2</b>		

**PSU**

<b>+</b>	Power supply
<b>-</b>	Power supply ground reference

**BUSY OUT**

-	Busy relay Common	Dry contact relay. During a call and for the duration of the call, the BY terminal will remain shorted to -. At the end of the call BY is open circuit.
<b>BY</b>	Busy relay normally open	

To download the programming software **Videx IPure Wizard** and obtain the latest firmware and manuals please visit the following website and register

<https://service.videx.it/>

**TECHNICAL SPECIFICATIONS**

**Housing/Mounting:** 9 Module A type DIN box/  
DIN Bar or directly to the wall

**Programming:** By software

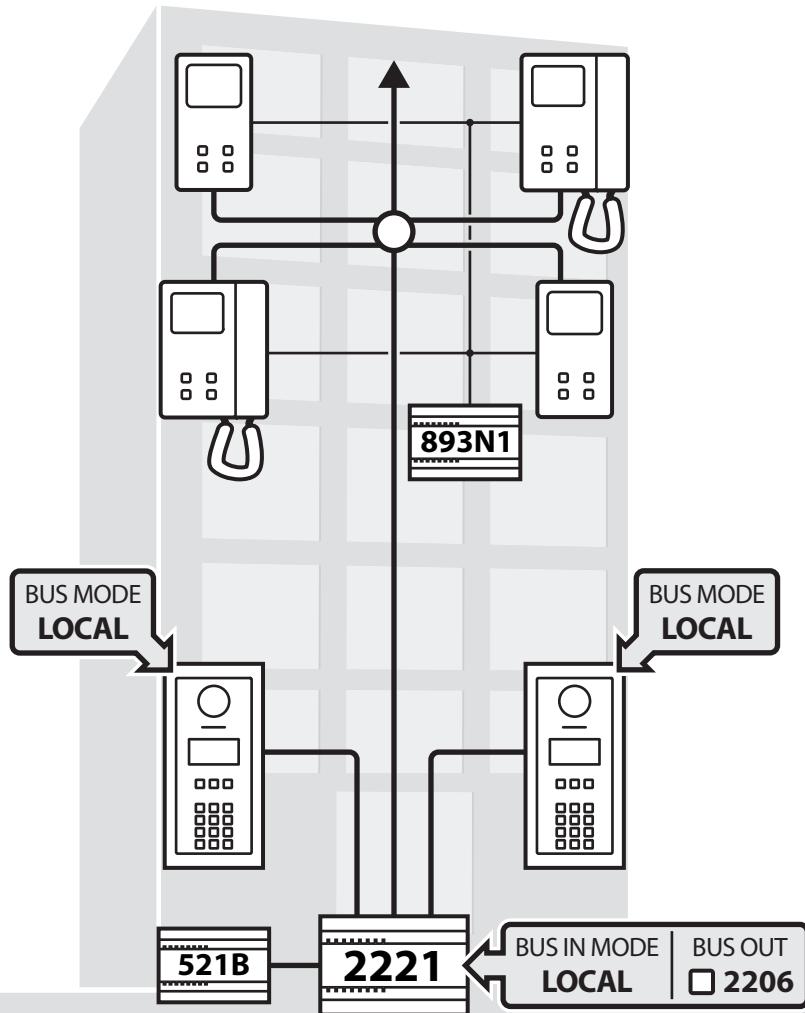
**Minimum bandwidth:** 100 Kbits

**Power consumption:** 0.5A

**Working voltage:** 12Vdc

**Working temperature:** -20 +60 °C

## BASIC INSTALLATION OF A VX2200 AUDIO/VIDEO SYSTEM



LAN

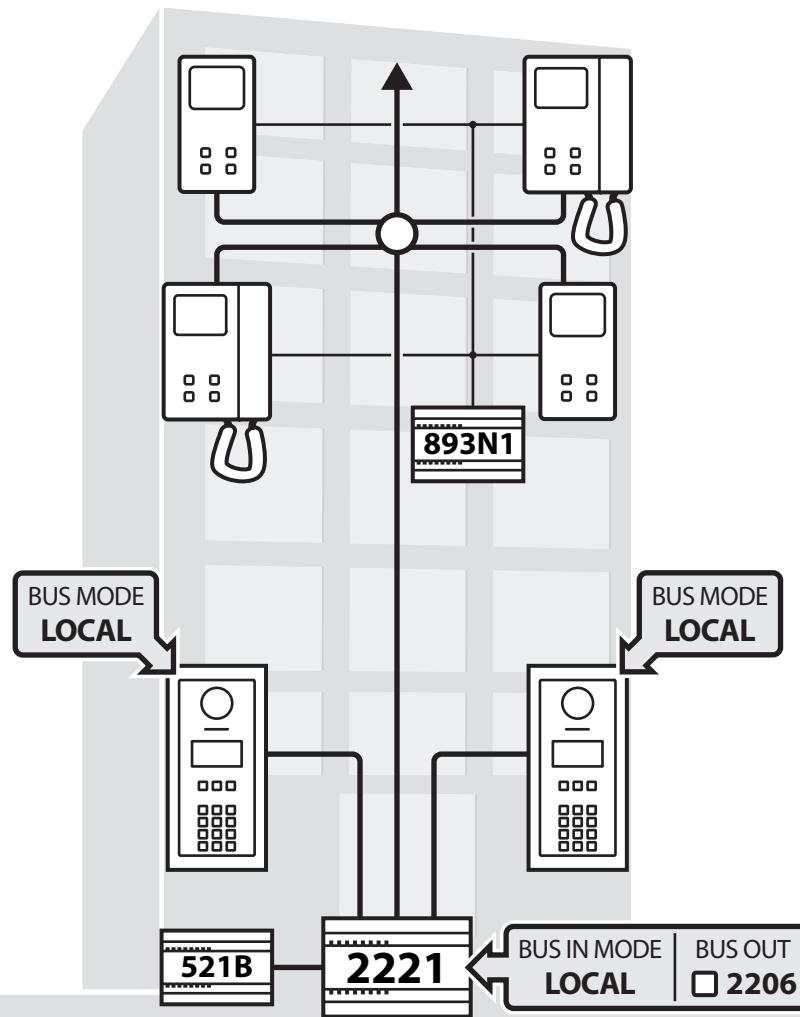


Ms Windows® PC  
running the Art. CSW2220  
"VX2200 IP Concierge Software"

This diagram shows the basic installation:

- A VX2200 audio/video door entry system;
- One IP interface Art. 2221 connected to a LAN;
- One concierge station that can be a PC or laptop with the Art. CSW2220 software installed. The software includes the VX2200 IP Concierge software and the VX2200 IP Server software (Both running on the same PC). A USB dongle is required to unlock the software. In addition to its standard functions as traditional concierge unit (as Art. 2210), the concierge station benefits from the advantages of the Ethernet LAN connection, so it can be installed on a laptop computer connected to the LAN through a Wi-Fi connection. While the operator is conversing with one apartment, an incoming call from the door panel notifies the operator that the call will be diverted to the calling panel within 5 seconds.

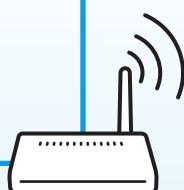
## INSTALLATION IN A VX2200 AUDIO/VIDEO SYSTEM USING MORE CONCIERGE STATIONS



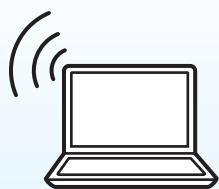
LAN



Ms Windows® PC  
running the Art. CSW2220  
"VX2200 IP Concierge Software"



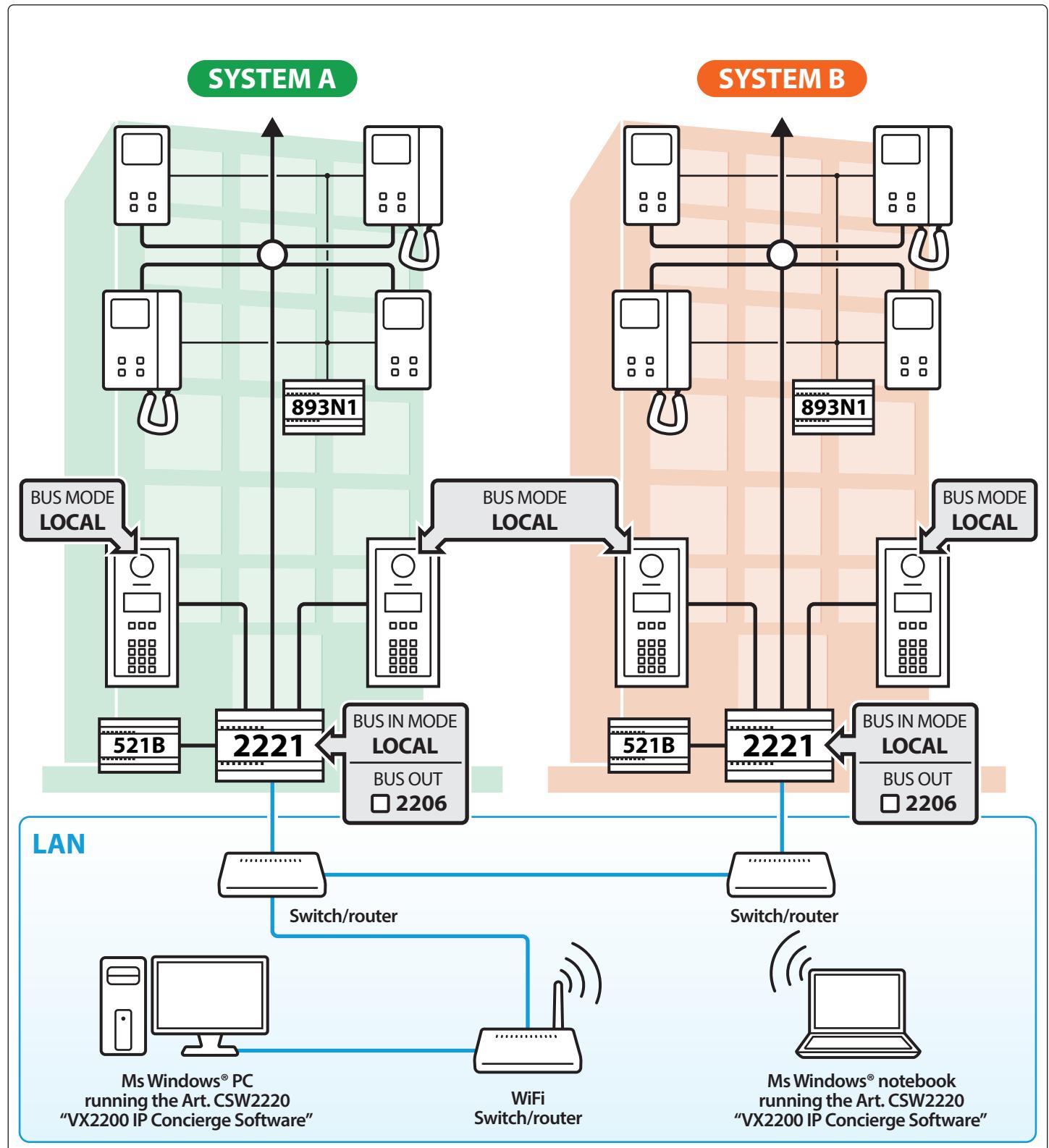
WiFi  
Switch/router



Ms Windows® notebook  
running the Art. CSW2220  
"VX2200 IP Concierge Software"

The diagram shows the same system as page 7 with the addition and the connection of multiple concierge stations. Any concierge station can handle a call from the door panel or a call from the apartments.

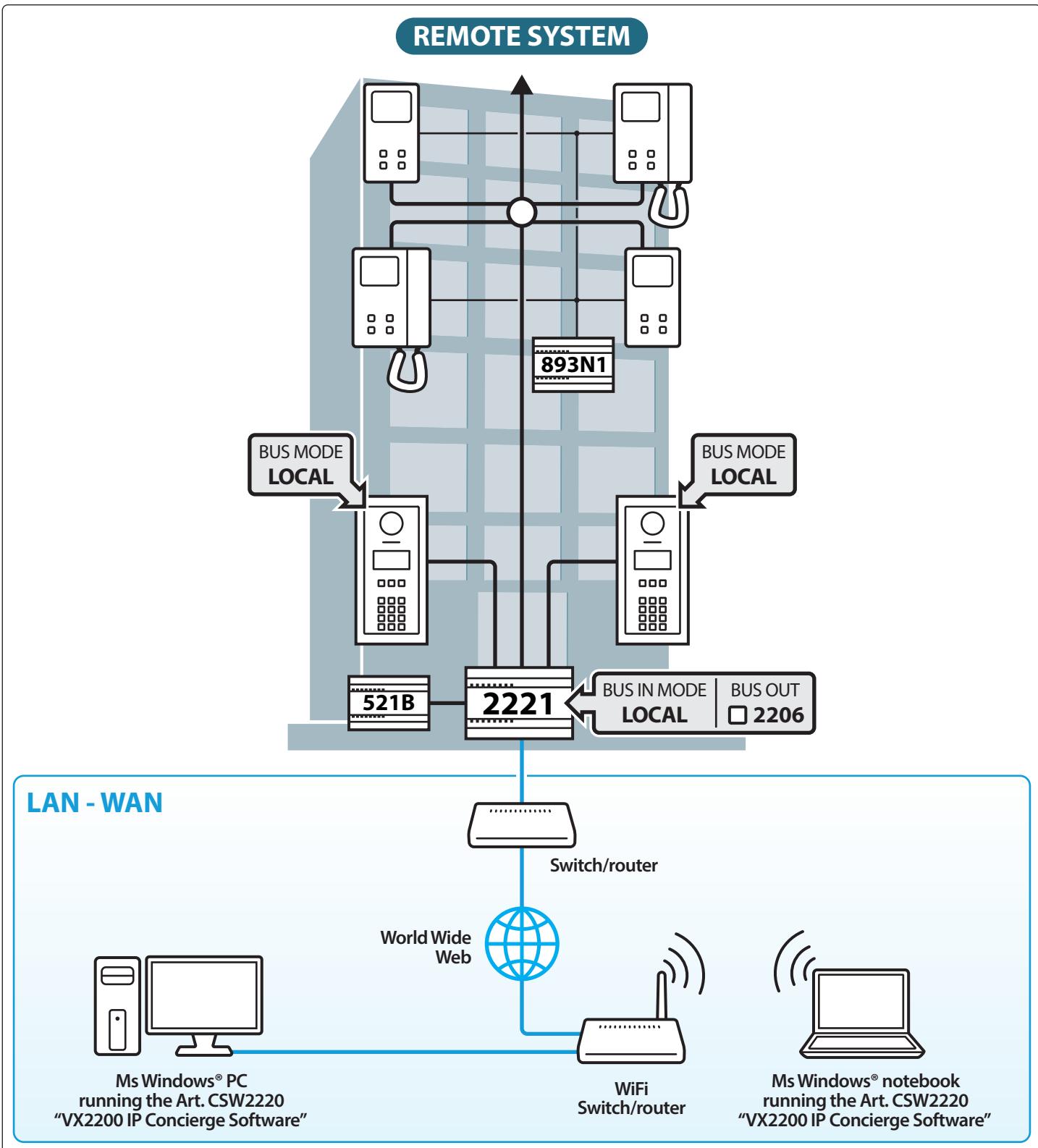
## TWO VX2200 AUDIO/VIDEO SYSTEM WITH CENTRALISED CONCIERGE STATIONS



The diagram shows two systems that are connected together to the same LAN through the relevant Art. 2221. With this system layout:

- Any concierge station connected to the system can manage an internal or external call coming from apartment or doors in "**System A**" or "**System B**";
- Concierge stations can work simultaneously: when one is conversing with one apartment or entrance in "**System A**", another can handle a call coming from a door panel or apartment in "**System B**";
- Any concierge can instigate an intercommunication call between apartments either in the same system or not.
- The two concierges can operate also on the same device: for instance, while a concierge is in conversation with a door of "**System A**", the second one can call and manage any kind of request coming from the riser of the same system

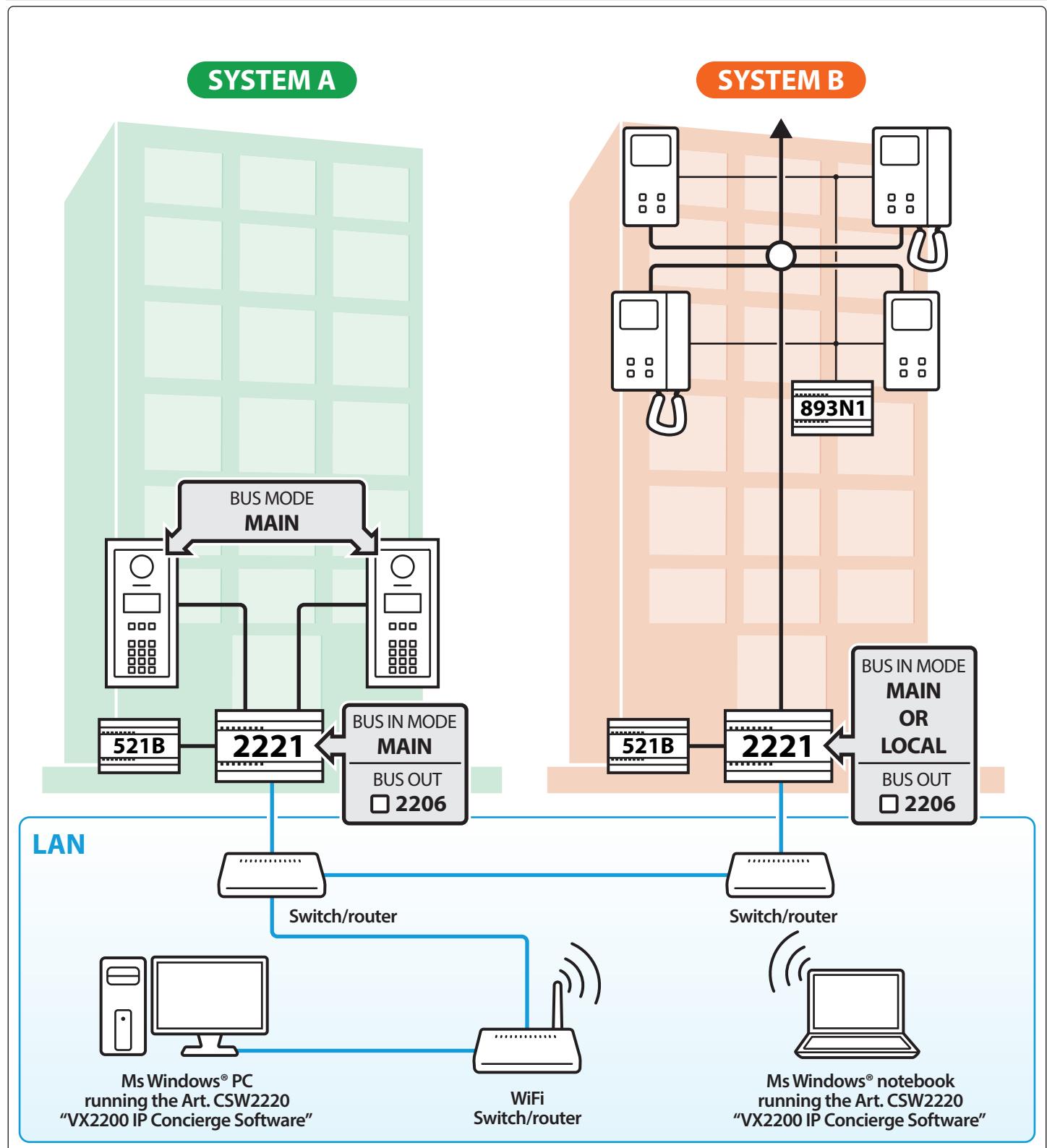
## VX2200 AUDIO/VIDEO SYSTEM MANAGED BY REMOTE CONCIERGE STATIONS



This system is similar to the system shown on page 8 but with the concierge remotely connected to the system. The features are exactly the same. For a correct system operation a minimum bandwidth of 100Kb is required.

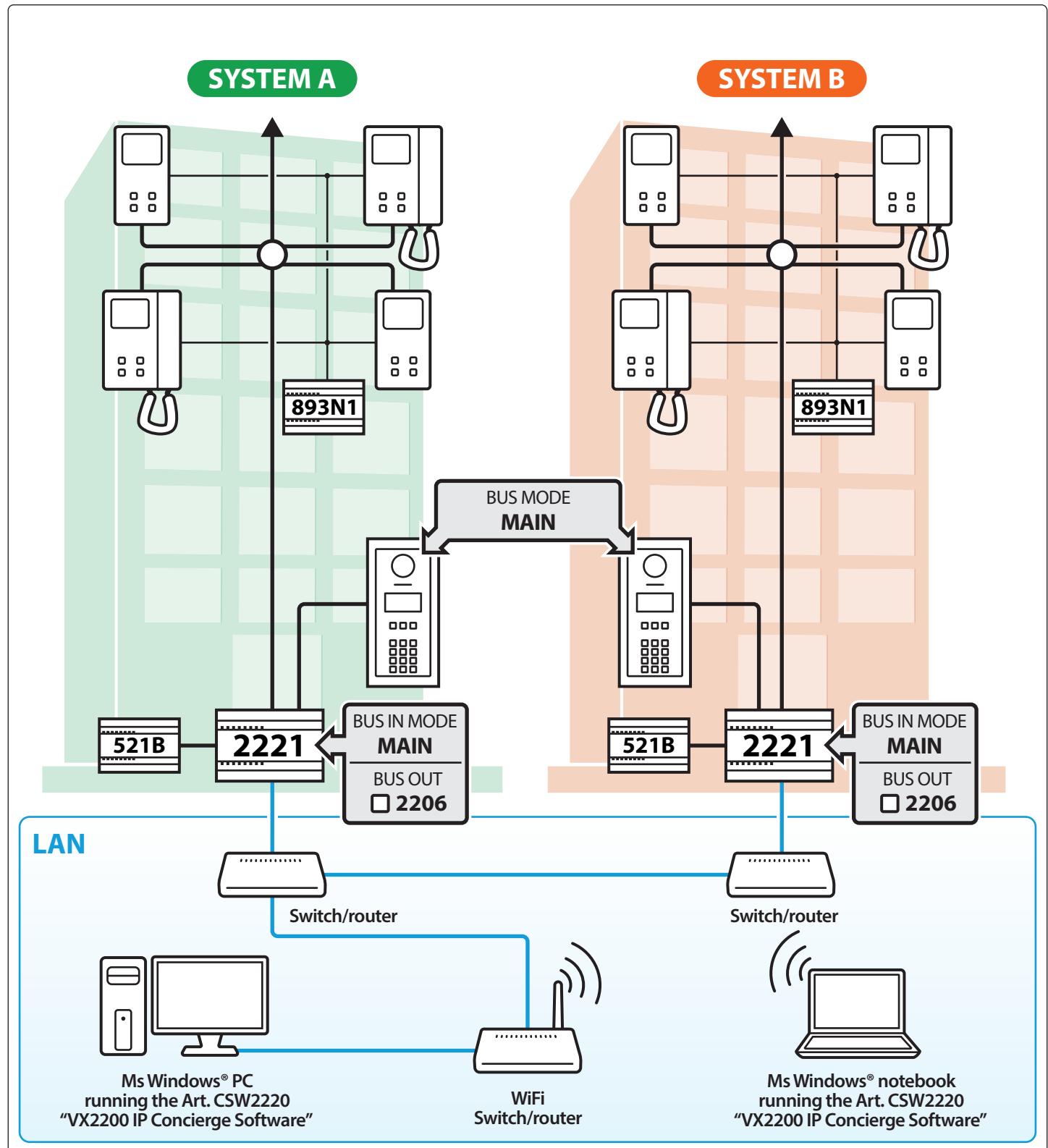
A port forwarding rule or virtual service must be added for each device on the system (either Art. 2221 or Art. CSW2220).

## TWO REMOTE VX2200 AUDIO/VIDEO SYSTEMS CONNECTED USING ETHERNET



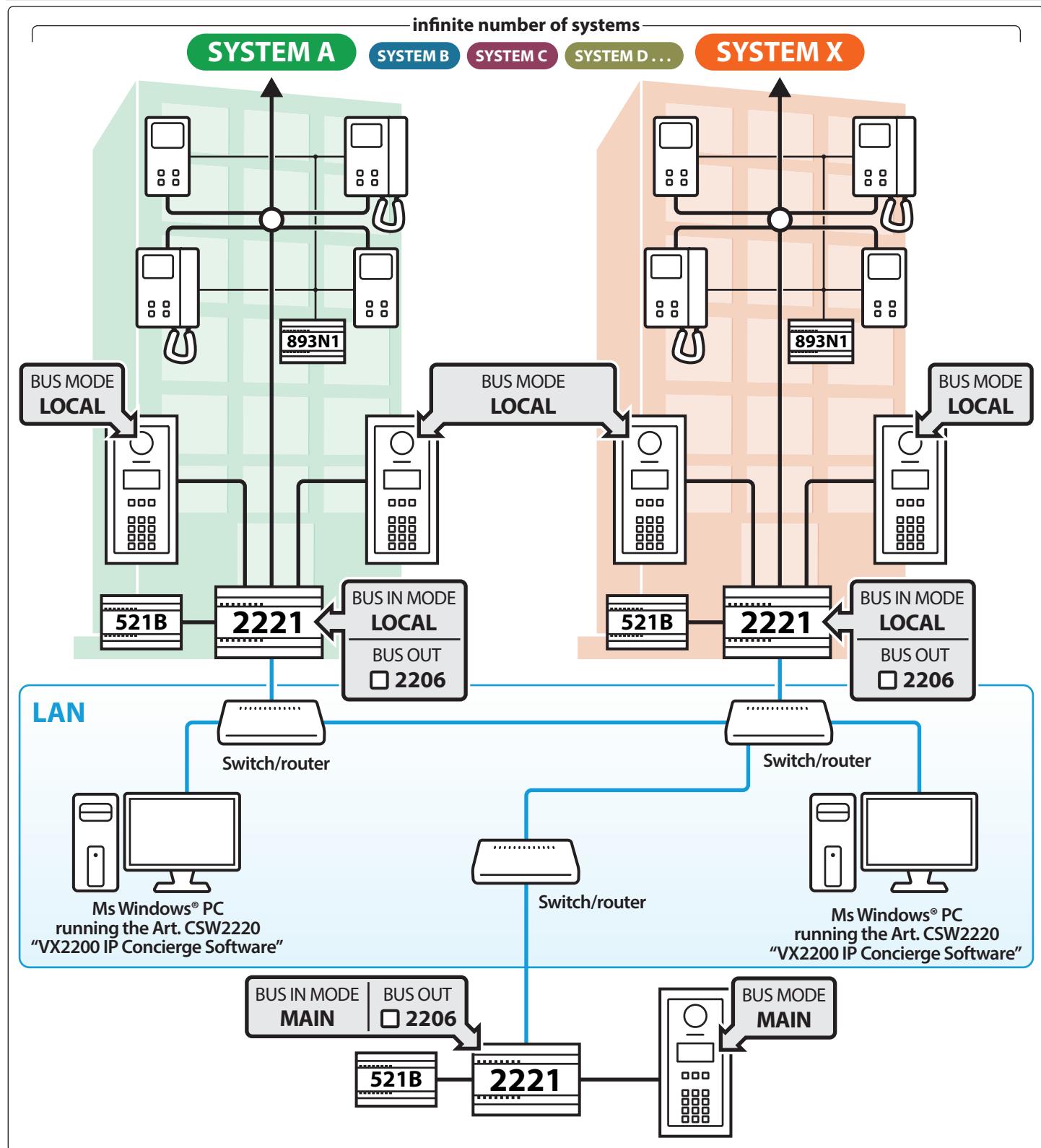
The diagram shows two separate VX2200 systems: the first one has two door panels connected to the Art. 2221 "**System A**", the second one has only intercoms connected to the riser of Art. 2221 "**System B**". Visitors of "**System A**" can call intercoms of "**System B**" using Ethernet connection: the Art. 2221 are working as bridge for VX2200 making possible to call apartments not physically connected to the same Art. 2221. In this case Art. 2221 is used for remove the physical limit of 6 wire cables length.

## TWO VX2200 AUDIO/VIDEO SYSTEM CALLING LOCAL AND REMOTE DEVICES



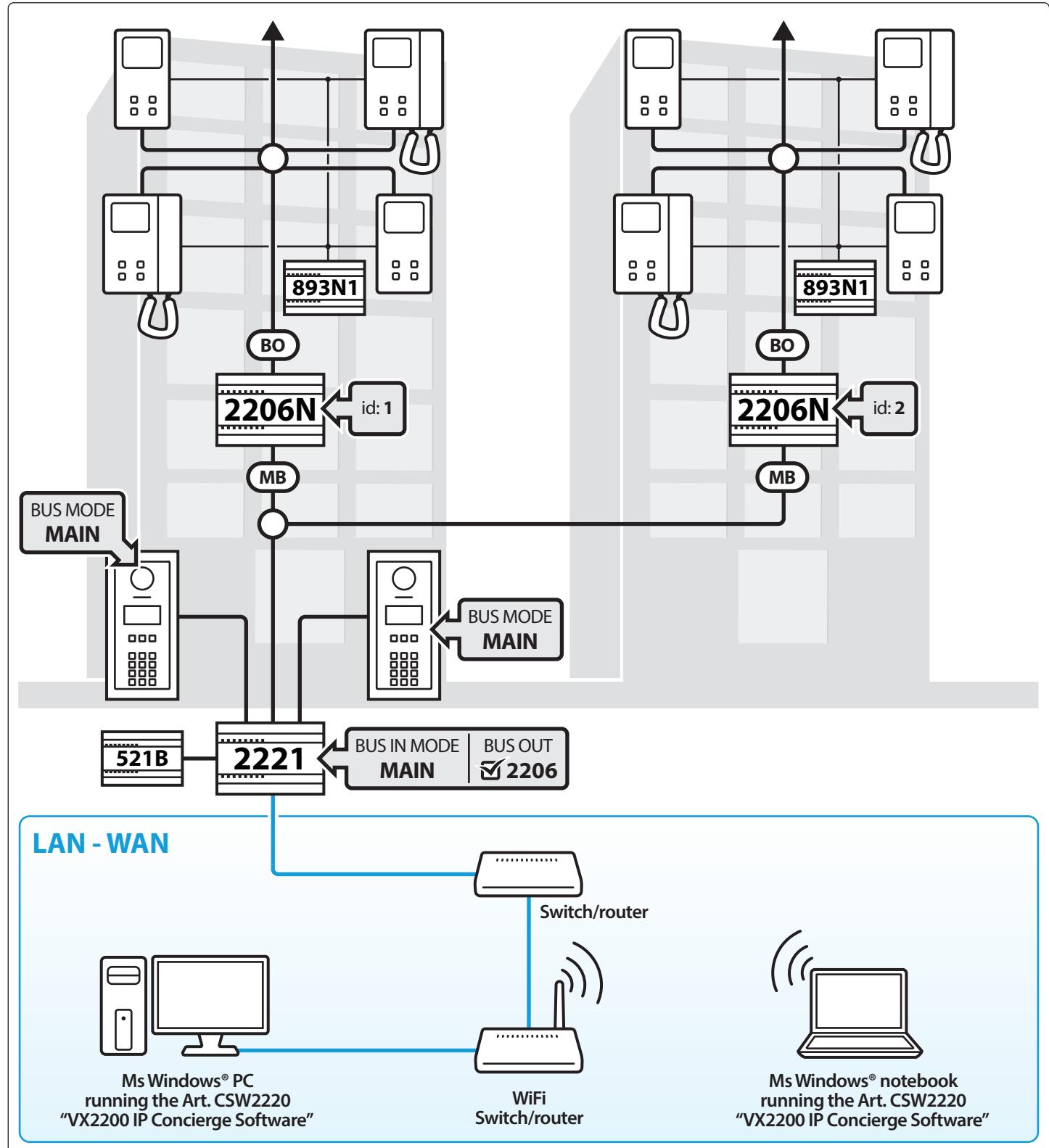
The installation described by the figure shows two buildings equipped with VX2200 devices and an Art. 2221. Each Art. 2221 manages both door panels and intercoms. Here visitors can call and communicate with intercoms connected to the same Art. 2221 (local) or connected to the other Art. 2221 (remote). Furthermore, visitor of "**System A**" can call an apartment of "**System B**" while a visitor of "**System B**" is speaking with an apartment of "**System A**". In this scenario, it's possible to connect between them a huge number of VX2200 devices with a few Art. 2221.

## SEVERAL BUILDINGS CALLED BY A SINGLE MAIN ENTRANCE



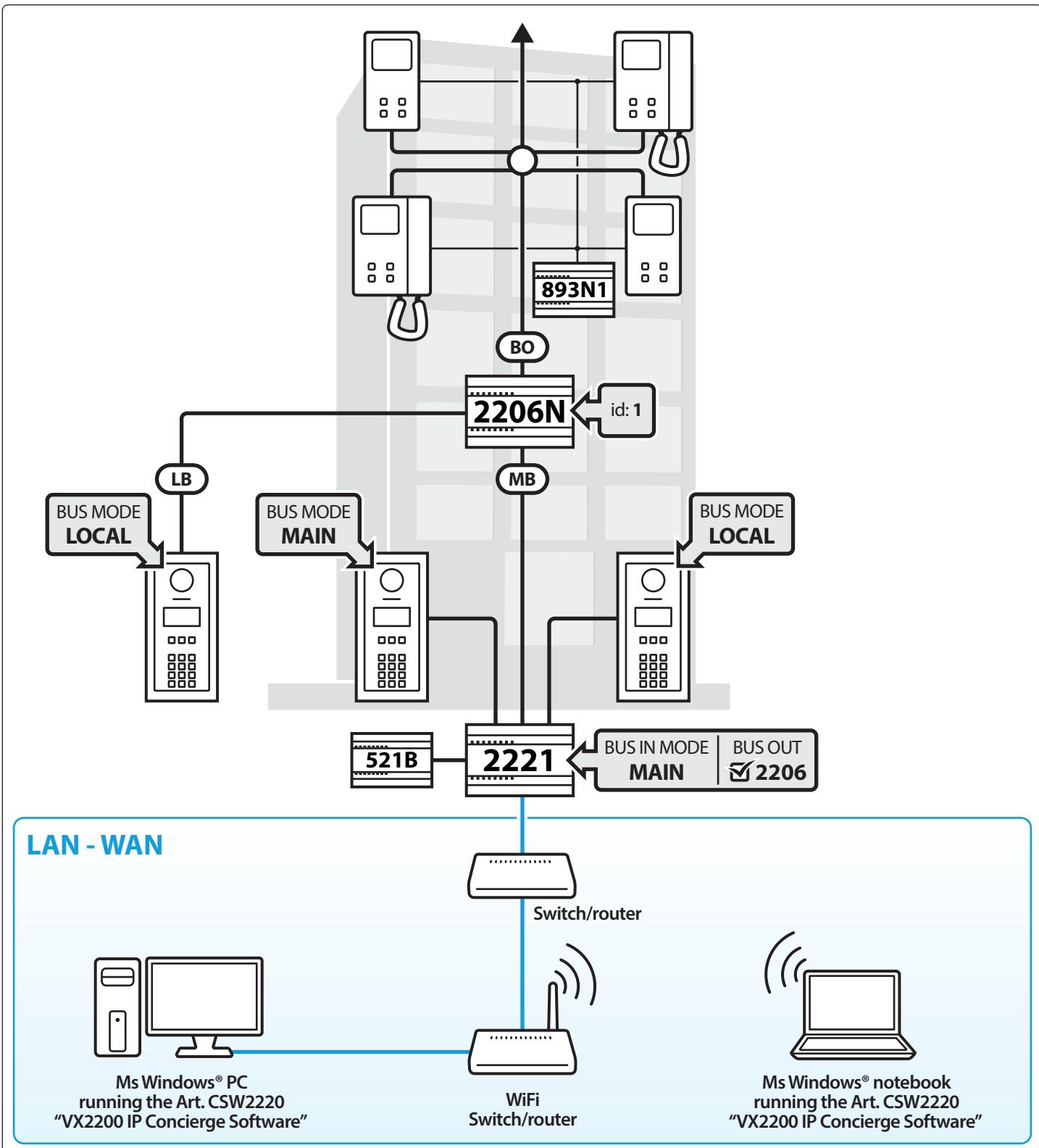
The diagram on this page is an extension of the one on page 9. It has one further Art. 2221, with only one door panel: this is meant to call all the apartments on the whole system, while the other door panels (set with BUS IN = LOCAL) are allowed to call only their riser.

## TWO BLOCKS EACH WITH A ART. 2206N BLOCK EXCHANGER WITH A ART. 2221 LINKING THE BLOCKS TOGETHER



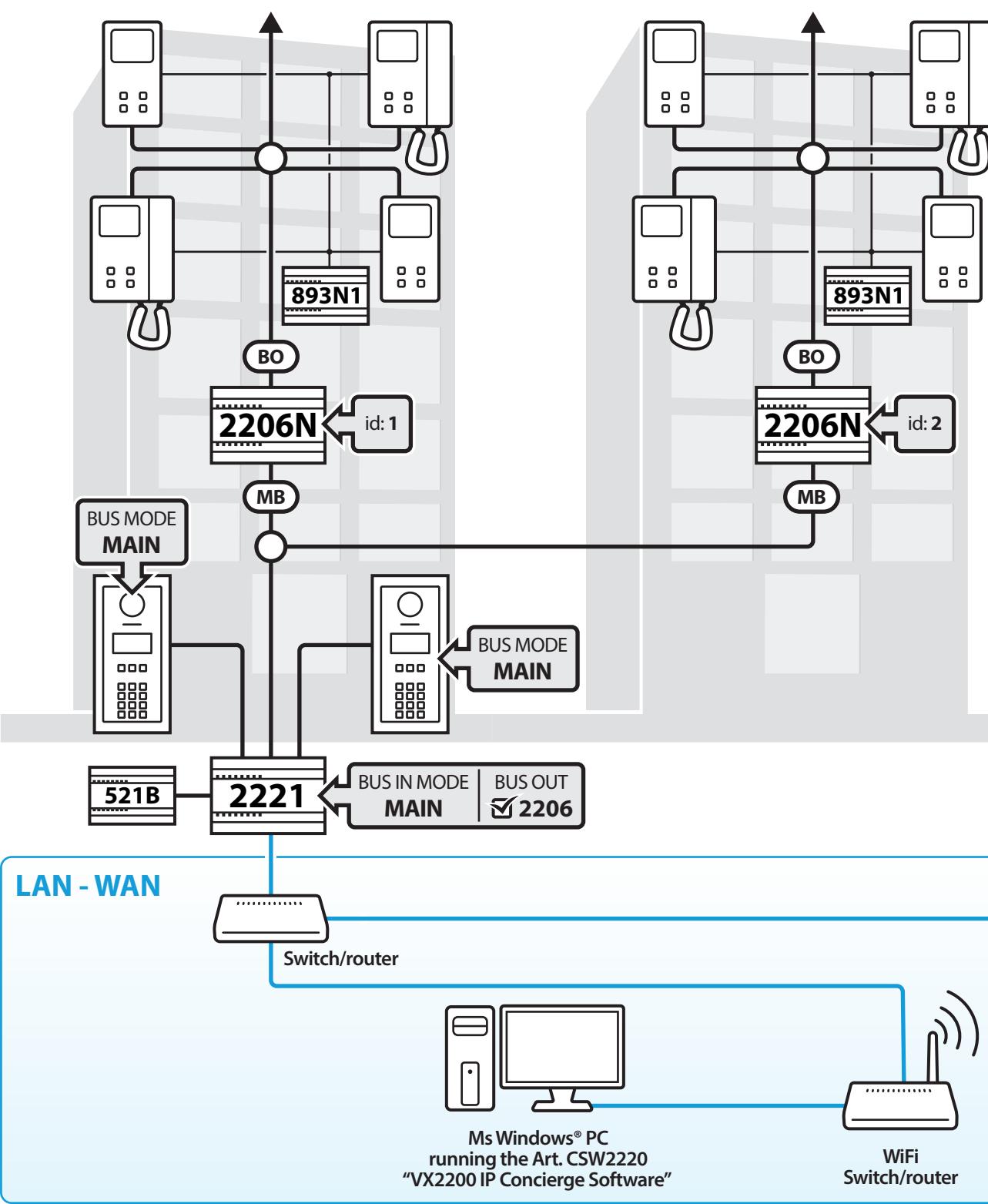
The Art. 2221 can also be used with the Art. 2206N, it is possible to connect up to 15 blocks with up to 180 apartments in each (totaling 2700 apartment).

## ART. 2221 LINKING TO MAIN DOORS AND LOCAL DOORS CONNECTED VIA ART. 2206N'S



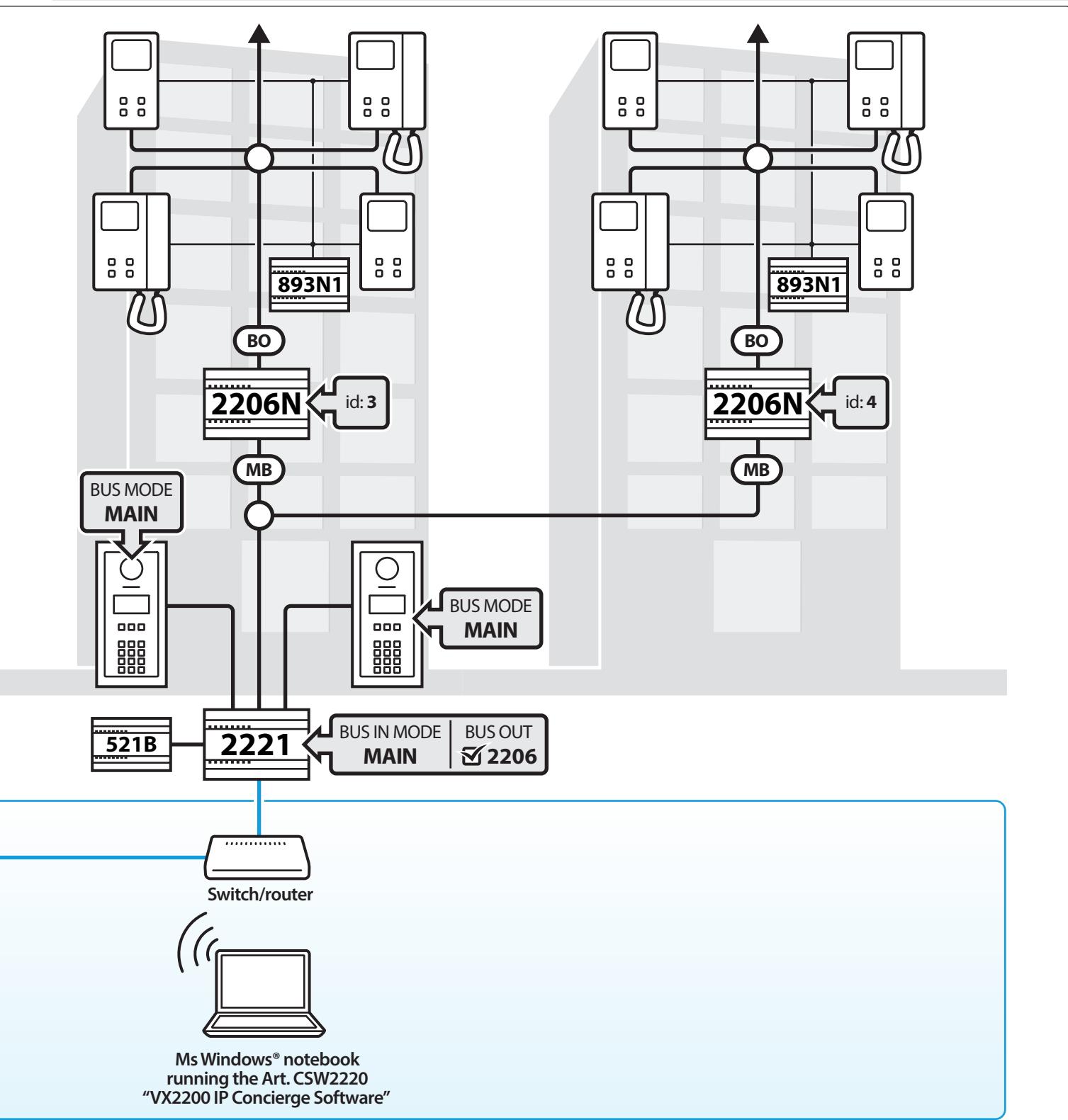
The Art. 2221 can work with main entrances and local entrances connected via Art. 2206N's.

## TWO ART. 2221'S CONNECTED TO MULTIPLE BLOCKS VIA ART. 2206N'S



The diagram shows two Art. 2221's with multiple Art. 2206N's connected to each. Ensure each 2206N block exchanger has a unique ID.

## TWO ART. 2221'S CONNECTED TO MULTIPLE BLOCKS VIA ART. 2206N'S

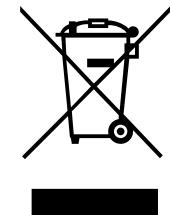




## ENG **DISPOSAL**

In accordance with the Legislative Decree no. 49 of 14 March 2014 "Implementation of the Directive 2012/19/EU on waste electrical and electronic equipment (WEEE)".

The crossed-out bin symbol on the equipment or on the packaging indicates that when the product reaches the end of its lifetime, it must be collected separately from mixed municipal waste. The user must, therefore, dispose of the equipment at the end of its lifetime in the suitable waste collection centres or bring it to the retailer during the purchase of a new equipment of equivalent type at the ratio of one-to-one. Furthermore, the user is allowed to dispose of the WEEEs of very small size (domestic appliances without any external dimension exceeding 25 cm (9.84 inches) for free to the retailers, without any purchase obligation. The correct waste disposal of the WEEEs contributes to their reuse, recycling and recovery and avoids potential negative effects on the environment and human health due to the possible presence of dangerous substances within them.



## ITA **SMALTIMENTO**

Ai sensi del Decreto Legislativo 14 marzo 2014, n° 49 "Attuazione della direttiva 2012/19/UE sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE)".

Il simbolo del cassetto barrato riportato sull'apparecchiatura o sulla sua confezione indica che il prodotto alla fine della propria vita utile deve essere raccolto separatamente dagli altri rifiuti urbani misti. L'utente dovrà, pertanto, conferire l'apparecchiatura giunta a fine vita presso gli idonei centri di raccolta differenziata oppure riconsegnarla al rivenditore al momento dell'acquisto di una nuova apparecchiatura di tipo equivalente, in ragione di uno a uno. L'utente ha, inoltre, la possibilità di conferire gratuitamente presso i distributori, senza alcun obbligo di acquisto, per i RAEE di piccolissime dimensioni (per le apparecchiature di tipo domestico con nessuna dimensione esterna superiore a 25 cm).

L'adeguata raccolta differenziata dei RAEE contribuisce al loro riutilizzo, riciclaggio e recupero ed evita potenziali effetti negativi sull'ambiente e sulla salute umana dovuti alla eventuale presenza di sostanze pericolose al loro interno.

## FRA **ÉLIMINATION**

Conformément au décret législatif n ° 49 du 14 mars 2014 relatif à l' « Application de la directive 2012/19 / UE relative aux déchets d'équipements électriques et électroniques (DEEE) ».

Le symbole de la poubelle barrée sur l'équipement ou sur son emballage indique que le produit en fin de vie utile doit être collecté séparément des autres déchets municipaux en mélange. L'utilisateur doit donc remettre l'équipement en fin de vie aux centres de collecte appropriés ou le restituer au revendeur lors de l'achat d'un nouveau type d'équipement équivalent, dans le rapport de un à un. De plus, l'utilisateur a la possibilité de conférer gratuitement aux distributeurs, sans aucune obligation d'achat, de très petits DEEE (pour les appareils ménagers sans dimensions extérieures supérieures à 25 cm). La collecte séparée adéquate des DEEE contribue à leur réutilisation, leur recyclage et leur valorisation et évite les éventuels effets négatifs sur l'environnement et la santé humaine en raison de la présence possible de substances dangereuses dans ceux-ci.

## SPA **ELIMINACIÓN**

De conformidad con el Decreto legislativo n. 49 de 14 de marzo 2014 "Aplicación de la Directiva 2012/19/UE relativa a residuos de aparatos eléctricos y electrónicos (RAEE)".

El símbolo del contenedor tachado indicado sobre los aparatos o sobre los embalajes señala que el producto al final de su vida útil debe ser recogido separadamente de otros residuos municipales mezclados. Por tanto, el usuario deberá conferir los aparatos al final de su vida útil en los apropiados centros de recogida selectiva o devolverlos al vendedor al momento de la compra de nuevos aparatos equivalentes, en una relación de uno a uno. Además, el usuario tiene la posibilidad de entregar sin cargo a los distribuidores, sin ninguna obligación de compra, los RAEEs muy pequeños (para electrodomésticos sin dimensiones externas superiores a 25 cm).

La recogida selectiva apropiada de los RAEEs contribuye a su reutilización, reciclaje y valorización y evita potenciales impactos negativos sobre el medio ambiente y la salud humana debidos a la posible presencia de substancias peligrosas dentro de ellos.

## NLD **VERWIJDERING**

In overeenstemming met het Wetsbesluit nr. 49 van 14 maart 2015 "Implementatie van de Richtlijn 2012/19/EU inzake afgedankte elektrische en elektronische apparaten (AEEA)".

Het doorgekruiste vuilnisbaksymbool op het apparaat of de verpakking geeft aan dat het product aan het einde van zijn levensduur niet samen met het gewone huisvuil weggegooid mag worden. De gebruiker moet het apparaat aan het einde van zijn levensduur inleveren bij een gepast inzamelpunt of de winkel waar hij een nieuw apparaat van een gelijksoortig type zal kopen. De gebruiker kan tevens AEEA's van een zeer klein formaat (huishoudapparaten met een buitenafmeting kleiner dan 25 cm (9,84 inch) gratis en zonder enige aankoopverplichting bij handelaars inleveren. Een juiste verwijdering van AEEA's draagt bij tot hergebruik, recycling en terugwinning, en voorkomt potentieel negatieve effecten op het milieu en de menselijke gezondheid door de mogelijke aanwezigheid van gevaarlijke stoffen.

## POR **ELIMINAÇÃO**

De acordo com o Decreto Legislativo n.º 49 de 14 de março de 2014 "Implementação da Diretiva 2012/19/UE relativa aos resíduos de equipamentos elétricos e eletrônicos (REEE)".

O símbolo do caixote do lixo riscado no equipamento ou na embalagem indica que quando o produto atinge o fim da sua vida útil, deve ser recolhido separadamente dos resíduos urbanos mistos. O utilizador deve, portanto, eliminar o equipamento no final da sua vida útil nos centros de recolha de resíduos adequados ou levá-lo ao vendedor durante a compra de um novo equipamento de tipo equivalente, na proporção de um para um. Além disso, o utilizador pode eliminar gratuitamente os REEE de dimensões muito reduzidas aos vendedores, sem qualquer obrigação de compra.(só aparelhos domésticos sem qualquer dimensão externa que exceda 25 cm, ou seja 9,84 polegadas). A correta eliminação dos REEE contribui para a sua reutilização, reciclagem e recuperação e evita potenciais efeitos negativos sobre o ambiente e a saúde humana devido à possível presença de substâncias perigosas no seu interior.



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The product is CE marked demonstrating its conformity and is for distribution within all member states of the EU with no restrictions. This product follows the provisions of the European Directives 2014/30/EU (EMC); 2014/35/EU (LVD); 2011/65/EU (RoHS); CE marking 93/68/EEC.

Le produit est marqué CE à preuve de sa conformité et peut être distribué librement à l'intérieur des pays membres de l'union européenne EU.  
Ce produit est conforme aux directives européennes 2014/30/EU (EMC) ; 2014/35/EU (LVD) ; 2011/65/EU (RoHS) : marquage CE 93/68/EEC.

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يحمل المنتج علامة التوافق الأوروبي CE لاظهار تواافقه مع المعايير ذات الصلة وامكانية توزيعه في كافة دول الاتحاد الأوروبي بدون أي قيود. يلي هذا المنتج جميع متطلبات التوجيهات الأوروبية (RoHS) – EU/10/2011; EU (LVD) 2014/35/EU; EU (EMC) 2014/30/EU؛ عالمي المطابقة .EEC/18/93 CE للمعايير الأوروبية

Il prodotto è marchiato CE a dimostrazione della sua conformità e può essere distribuito liberamente all'interno dei paesi membri dell'Unione Europea UE.  
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El producto lleva la marca CE que demuestra su conformidad y puede ser distribuido en todos los estados miembros de la unión europea UE.  
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O produto tem a marca CE que demonstra a sua conformidade e destina-se a distribuição em todos os estados membros da UE, sem restrições. Este produto segue as disposições das Diretivas Europeias 2014/30/UE (EMC); 2014/35/UE (LVD); 2011/65/UE (RoHS): marcação CE 93/68/CEE.



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