Zennio offers their customers different programming and support services in video intercom projects.

These services are included, as part of the prescription and offer process, as commercial references, which will be reflected in the customer's offer and order.

The current document aims to expound the significance of each of these references, indicating the services included in each of them.

Any other programming detail not encompassed in this document will be subject to be studied apart.

Ref.	DESCRIPTION
8500018	Basic programming for single home video intercom project – with 1 GetFace IP unit and up to 4 indoor units (*)
8500019	Additional programming of up to 4 more GetFace IP units with respect to **8500018** (**8500018** is required) (*)
8500020	Additional programming of up to 3 more GetFace IP and 8 more indoor units with respect to **8500018** (**8500018** is required) (*)
8500021	Additional programming of up to 2 more GetFace IP and 16 more indoor units with respect to **8500018** (**8500018** is required) (*)
8500022	Additional programming of up to 1 more GetFace IP and 24 more indoor units with respect to **8500018** (**8500018** is required) (*)
8500023	Additional programming of up to 16 more indoor units with respect to **8500018** (**8500018** is required) (*)
8500024	Basic programming for video intercom project in residential building with 1 GetFace IP unit and up to 7 apartments (*)
8500025	Additional programming of up to 10 more apartments with respect to **8500024** (**8500024** is required) (*)
8500026	Additional programming of up to 1 more GetFace IP unit and 5 more apartments with respect to **8500024** (**8500024** is required) (*)
8500027	Additional programming of up to 3 more GetFace IP units with respect to **8500024** (**8500024** is required) (*)

Table 1 References and descriptions of the programming items in video intercom projects

1. SINGLE-FAMILY HOME PROJECTS

Every single-family home project starts from a basic configuration and it is completed depending on the modules and particularities of each project.

The basic configuration of this type of project corresponds to the reference **8500018**. And the rest of references that complement this basic configuration refer to it according to the table below:

Ref.	DESCRIPTION
8500018	Basic programming for single home video intercom project – with 1 GetFace IP unit and up to 4 indoor units (*)
8500019	Additional programming of up to 4 more GetFace IP units with respect to **8500018** (**8500018** is required) (*)
8500020	Additional programming of up to 3 more GetFace IP and 8 more indoor units with respect to **8500018** (**8500018** is required) (*)
8500021	Additional programming of up to 2 more GetFace IP and 16 more indoor units with respect to **8500018** (**8500018** is required) (*)
8500022	Additional programming of up to 1 more GetFace IP and 24 more indoor units with respect to **8500018** (**8500018** is required) (*)
8500023	Additional programming of up to 16 more indoor units with respect to **8500018** (**8500018** is required) (*)

Table 2 References and descriptions of the programming items in single-home video intercom projects

1.1. BASIC PROGRAMMING FOR SINGLE HOME VIDEO INTERCOM PROJECT WITH 1 GETFACE IP UNIT AND UP TO 4 INDOOR UNITS (REF. 8500018)

The basic video intercom project for single-family homes entails the following network structure:

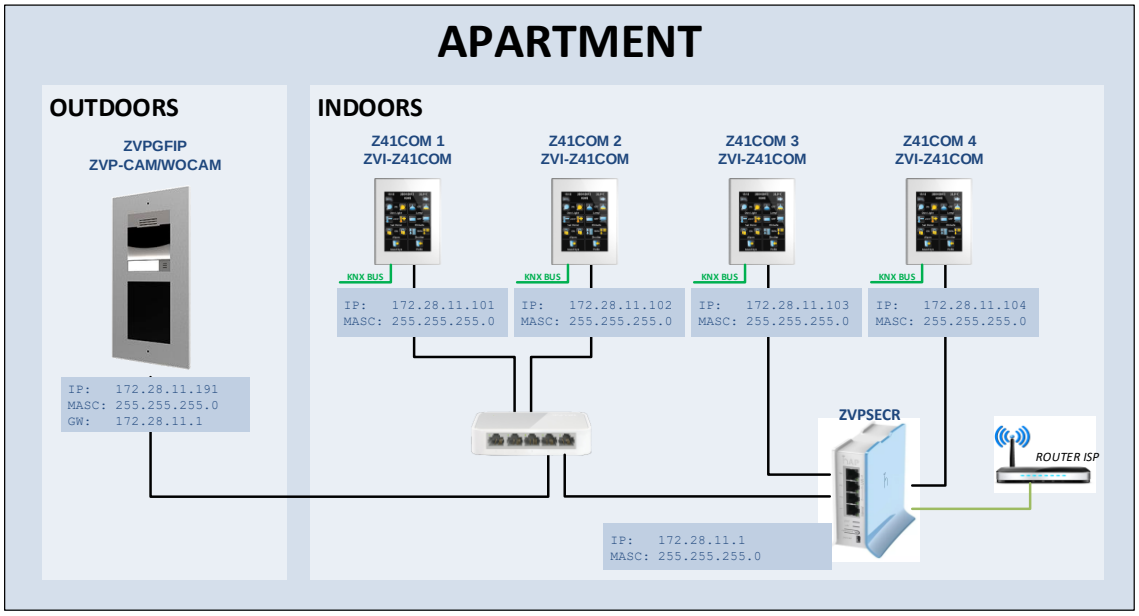

Figure 1 Basic network scheme in a single-family home.

The devices that comprise this basic configuration and their configuration are listed below:

- **A GetFace unit** whose configuration includes:
  - SIP1 and SIP2 parameter configuration for calls to Z41 COM and ZenCom, respectively.
  - Link both outputs of the basic unit (OUT1 and RELAY1) with “door 1”).
  - Configuration of the input (IN1) as “exit push-button” for “door 1” (which activates both outputs of the basic unit).
  - Link "door 2" and "door 3" to the RELAY1 and RELAY2 outputs of the ZVP-INOUT module (it is required to acquire ZVP-INOUT module).
  - Create logical functions in "Automation" to link IN1 and IN2 inputs of the ZVP-INOUT module to the RELAY1 and RELAY2 outputs, respectively, to use them as "exit push-buttons" (it is needed to acquire ZVP-INOUT module).
  - Default password to access the GetFace web interface.
  - Configuration of the services needed for the correct operation of the system and the HTTP commands.
  - Creation of a single user with settings to call in parallel up to four indoor units and preconfiguration of a ZenCom account.
  - Assignment of the call button in the basic unit to the unique user.
  - Configuration of the modules that encompass the GetFace IP unit assembly as described in section PARAMETERIZATION DETAILS OF THE DIFFERENT GETFACE IP MODULES.
  - Other minor settings.
- **One ZVPSECRV2 unit** with the standard configuration for single family home. The most outstanding features of this configuration are the following:
  - **It provides Internet access for video intercom devices independently on the ISP (Internet Service Provider):** to GetFace for the use of ZenCom and to the Z41 COM for the management of the KNX installation through Z41 Remote.

    - **It prevents accessing to the user's network from the VP network,** preventing unauthorized access from the network cable located in the street.
- **Up to 4 indoor units** (not configured, only the necessary parameterization is documented).

The programming of these devices is completed with the documentation consisting in:

- **Labeling** of the programmed devices.
- **Maintenance Manual**. Standard manual intended for the integrator. It contains general information related to the video intercom system and the different devices that make it up. And also the possible functionalities that the system can implement depending on the modules that make up the GetFace units.
- **Annex I - GetFace IP Video Intercom Solution Configuration**. Document annexed to the Maintenance Manual that gather the particularities of that specific project, detailing the network scheme and all the details of each of the devices involved in the project.
- **User Manual**. Manual intended for the end user that includes information on how to use the GetFace unit (and its modules), the Z41 COM and the ZenCom app.
- **ZenCom Credentials**. Document that is only provided if the project requires it.
- **GetFace and ZVPSECRV2 backups**.

1.2. ADDITIONAL PROGRAMMING OF UP TO 4 MORE GETFACE IP UNITS (Ref. 8500019)

Starting from the basic project described in reference 8500018, if the project needs to incorporate more GetFace IP units, the reference 8500019 must be added as many times as required.

It should be taken into account that, for each unit of this reference, it is included:

- The configuration of up to 4 more GetFace IP units with respect to the basic project (ref. 8500018).
- Configuration of the modules that encompass the GetFace IP unit assembly as described in section PARAMETERIZATION DETAILS OF THE DIFFERENT GETFACE IP MODULES.
- Documentation, labeling and registration of these GetFace IP units.

1.3. ADDITIONAL PROGRAMMING OF UP TO 3 MORE GETFACE IP UNITS AND 8 MORE INDOOR UNITS (Ref. 8500020)

Starting from the basic project described in reference 8500018, if the project needs to incorporate more GetFace IP units, the reference 8500020 must be added as many times as required.

It should be taken into account that, for each unit of this reference, it is included:

- The configuration of up to 3 more GetFace IP units with respect to the basic project (ref. 8500018).
- Configuration of the modules that encompass the GetFace IP unit assembly as described in section PARAMETERIZATION DETAILS OF THE DIFFERENT GETFACE IP MODULES.
- Documentation, labeling and registration of these GetFace IP units.
- Parameterization settings in GetFace IP units and documentation for calls to up to 8 more indoor units with respect to the basic project (ref. 850018).

1.4. ADDITIONAL PROGRAMMING OF UP TO 2 MORE GETFACE IP UNITS AND 16 MORE INDOOR UNITS (Ref. 8500021)

Starting from the basic project described in reference 8500018, if the project needs to incorporate more GetFace IP units and indoor units, the reference 8500021 must be added as many times as required.

It should be taken into account that, for each unit of this reference, it is included:

- The configuration of up to 2 more GetFace IP units with respect to the basic project (ref. 8500018).
- Configuration of the modules that encompass the GetFace IP unit assembly as described in section PARAMETERIZATION DETAILS OF THE DIFFERENT GETFACE IP MODULES.
- Documentation, labeling and registration of these GetFace IP units.
- Parameterization settings in GetFace IP units and documentation for calls to up to 16 more indoor units with respect to the basic project (ref. 850018).

1.5. ADDITIONAL PROGRAMMING OF UP TO 1 MORE GETFACE IP UNITS AND 24 MORE INDOOR UNITS (Ref. 8500022)

Starting from the basic project described in reference 8500018, if the project needs to incorporate more GetFace IP units and indoor units, the reference 8500022 must be added as many times as required.

It should be taken into account that, for each unit of this reference, it is included:

- The configuration of up to 1 more GetFace IP unit with respect to the basic project (ref. 8500018).
- Configuration of the modules that encompass the GetFace IP unit assembly as described in section PARAMETERIZATION DETAILS OF THE DIFFERENT GETFACE IP MODULES.
- Documentation, labeling and registration of these GetFace IP units.
- Parameterization settings in GetFace IP units and documentation for calls to up to 24 more indoor units with respect to the basic project (ref. 850018).

1.6. ADDITIONAL PROGRAMMING OF UP TO 16 MORE INDOOR UNITS (Ref. 8500023)

Starting from the basic project described in reference 8500018, if the project needs to incorporate more GetFace IP units and indoor units, the reference 8500023 must be added as many times as required.

It should be taken into account that, for each unit of this reference, it is included:

- Parameterization settings in GetFace IP units and documentation for calls to up to 16 more indoor units with respect to the basic project (ref. 850018).

2. PROJECTS FOR RESIDENTIAL BUILDINGS OR HOMEOWNER'S ASSOCIATIONS

Projects for residential buildings or homeowner's associations imply a network structure that allows the correct operation of the system and, at the same time, to isolate the networks of each user.

For this reason, a firewall and as many manageable switches as the installation requires are included.

The reference **8500024** is the basis for this type of project. This reference and those related to this type of project are detailed below.

Ref.	DESCRIPTION
8500024	Basic programming for video intercom project in residential building with 1 GetFace IP unit and up to 7 apartments (*)
8500025	Additional programming of up to 10 more apartments with respect to **8500024** (**8500024** is required) (*)
8500026	Additional programming of up to 1 more GetFace IP unit and 5 more apartments with respect to **8500024** (**8500024** is required) (*)
8500027	Additional programming of up to 3 more GetFace IP units with respect to **8500024** (8500024 is required) (*)

Table 3 References and descriptions of the programming items for residential building projects

2.1. BASIC PROGRAMMING FOR VIDEO INTERCOM PROJECT IN RESIDENTIAL BUILDING WITH 1 GETFACE IP UNIT AND UP TO 7 APARTMENTS (REF. 8500024)

Each video intercom project for residential buildings or homeowner's communities involves the parameterization of outdoor units, configuration of network devices and its documentation. Thus, the ref. 8500024 includes the following:

- Programming of a GetFace IP outdoor unit to call up to 7 apartments with the following parameterization details:
    - SIP1 and SIP2 parameter configuration for calls to Z41 COM and ZenCom, respectively.
    - Link both outputs of the basic unit (OUT1 and RELAY1) with “door 1”).
    - Configuration of the input (IN1) as “exit push-button” for “door 1” (which activates both outputs of the basic unit).
    - Link "door 2" and "door 3" to the RELAY1 and RELAY2 outputs of the ZVP-INOUT module (it is required to acquire ZVP-INOUT module).
    - Create logical functions in "Automation" to link IN1 and IN2 inputs of the ZVP-INOUT module to the RELAY1 and RELAY2 outputs, respectively, to use them as "exit push-buttons" (it is needed to acquire ZVP-INOUT module).

    - Specific password to access the GetFace web interface.
    - Configuration of the services needed for the correct operation of the system and the HTTP commands.
    - Creation of a up to 7 users with settings to call in parallel up to 2 indoor units and preconfiguration of a ZenCom account per user.
    - Configuration of the modules that encompass the GetFace IP unit assembly as described in section PARAMETERIZATION DETAILS OF THE DIFFERENT GETFACE IP MODULES.
    - Other minor settings.
- Configuration of a Firewall with the necessary policies to guarantee the correct operation of the system and the security and integrity of the communications.
- Configuration of as many manageable switches as needed for the correct operation of the system.
- Configuration of up to 7 ZVPSECRV2 devices (one per apartment). The most outstanding features of this device are:
    - **It provides Internet access for video intercom devices regardless of the ISP (Internet Service Provider):** to the GetFace for the use of ZenCom (in the case that each apartment had its own GetFace, typical case in multi-dwelling communities) and to the Z41 COM for the management of the KNX installation through Z41 Remote.
    - **It prevents accessing to the user's network from the VP network,** preventing unauthorized access from the network cable located in the street (in the case that each apartment had its own GetFace, typical case in multi-dwelling communities)
    - **It guarantees the isolation between the "private" and "public" video intercom network.** It is understood as "private" video intercom network the one that includes its own indoor and outdoor units, in the event that there is a GetFace exclusively for each apartment. It is understood as "public" video intercom network the one that is made up of the building's network infrastructure or common infrastructure.
- **Up to 2 indoor units per apartment** (not configured, only the necessary parameterization is documented).

The programming of these devices is completed with the documentation consisting in:

- **Labeling** of the programmed devices.
- **Maintenance Manual**. Standard manual intended for the integrator. It contains general information related to the video intercom system and the different devices that make it up. And also, the possible functionalities that the system can implement depending on the modules that make up the GetFace units.
- **Annex I - GetFace IP Video Intercom Solution Configuration**. Document annexed to the Maintenance Manual that gather the particularities of that specific project, detailing the network scheme and all the details of each of the devices involved in the project.
- **Annex II - IP Connection Diagram**. Document that describes the network installation of the entire system in one or more drawings.

- **User Manual**. Manual intended for the end user that includes information on how to use the GetFace unit (and its modules), the Z41 COM and the ZenCom app.
- **Json file for the calls between apartments and Concierge / Porter.** If the project includes calls between apartments and the Concierge / Porter, the json file to be installed in the indoor unit of the Concierge / Porter will be included. This functionality only contemplates the call to a single indoor unit per apartment (more specifically, to indoor unit 1) and a unique Concierge / Porter post.
- **ZenCom Credentials**. Document that is only provided if the project requires it.
- **GetFace and ZVPSECRV2 backups**.

2.2. ADDITIONAL PROGRAMMING OF UP TO 10 MORE APARTMENTS (Ref. 8500025)

Starting from the basic project described in reference 8500024, if the project needs to incorporate more apartments, the reference 8500025 must be added as many times as required.

It should be taken into account that, for each unit of this reference, it is included:

- The configuration to call up to 10 more apartments with respect to the basic project (ref. 8500024) in all GetFace IP units of the project that require it.
- Configuration of the ZVPSECRV2 to be installed in these apartments.
- Documentation, labeling and registration of these devices.

2.3. ADDITIONAL PROGRAMMING OF UP TO 1 GETFACE IP UNIT AND 5 MORE APARTMENTS (Ref. 8500026)

Starting from the basic project described in reference 8500024, if the project needs to incorporate one more GetFace IP unit and up to 5 more apartments, the reference 8500026 must be added as many times as required.

It should be taken into account that, for each unit of this reference, it is included:

- The configuration to call up to 5 more apartments with respect to the basic project (ref. 8500024) in all GetFace IP units of the project that require it.
- Configuration of the additional GetFace IP unit.
- Configuration of the modules that encompass the GetFace IP unit assembly as described in section PARAMETERIZATION DETAILS OF THE DIFFERENT GETFACE IP MODULES.
- Configuration of the ZVPSECRV2 to be installed in these apartments.
- Documentation, labeling and registration of these devices.

2.4. ADDITIONAL PROGRAMMING OF UP TO 3 MORE GETFACE IP UNITS (Ref. 8500027)

Starting from the basic project described in reference 8500024, if the project needs to incorporate up to 3 more GetFace IP units, the reference 8500027 must be added as many times as required.

It should be taken into account that, for each unit of this reference, it is included:

- Configuration of up to 3 additional GetFace IP units.
- Configuration of the modules that encompass the GetFace IP unit assembly as described in section PARAMETERIZATION DETAILS OF THE DIFFERENT GETFACE IP MODULES.
- Documentation, labeling and registration of these devices.

3. PARAMETERIZATION DETAILS OF THE DIFFERENT GETFACE IP MODULES

3.1. CONFIGURATION OF A ZVP-NAME5 MODULE

When adding a ZVP-NAME5 module to the system, it is configured to which Z41 COM each button calls. This programming will be done according to the client's preferences. If the client does not provide any preference, it will be done as deemed appropriate taking into account the characteristics of the project.

3.2. CONFIGURATION OF A ZVP-KEYPAD MODULE

When adding a ZVP-KEYPAD module to the system, two codes for activation and deactivation of opening codes and a default opening code are included.

The inclusion of this module in residential buildings implies the assignment of a calling code by *virtual number* to each apartment.

This programming is documented in the Annex I in the documentation of each project.

3.3. CONFIGURATION OF A ZVP-TOUCHD MODULE

When adding a ZVP-TOUCHD module to the system, two codes for activation and deactivation of opening codes and a default opening code are included

This programming is documented in the Annex I.

It is also configured to which Z41 COM each virtual button on the panel calls (only if it has been specified, otherwise, the default settings will be kept). The identification of each apartment will be done following the documentation provided by the client. If none identification is provided, it will be done as deemed appropriate.

3.4. CONFIGURATION OF A ZVP-INFOP MODULE

This module does not admit programming.

3.5. CONFIGURATION OF A ZVP-RFSMN MODULE

If at least 2 cards are included in the order together with the ZVP-RFSMN module, they will be programmed as *Master Cards*. These cards will allow the inclusion and deletion of *User Cards* intended to activate the switch with which the RFSMN module is linked (by default, “switch 1”).

If the installation includes more than one GetFace IP with ZVP-RFSMN module, the *Master Cards* will be unique for the whole project.

3.6. CONFIGURATION OF A ZVP-BLUET MODULE

The inclusion of the ZVP-BLUET module implies to link the module with a “switch” and the registration and labeling of the module. If no information is provided, it will be linked to "switch 1".

3.7. CONFIGURATION OF A ZVP-ILOOP MODULE

No programming is applied to this module.

3.8. CONFIGURATION OF A ZVP-VIGM MODULE

No programming is applied to this module.

3.9. CONFIGURATION OF A ZVP-FINGER MODULE

No programming is applied to this module.

3.10. CONFIGURATION OF A ZVP-INOUT MODULE

The ZVP-INOUT module is incorporated when the activation of more than one “door” from the video intercom system is wanted.

The relay outputs 1 and 2 of this module will be linked to “switch 2” and “switch 3”, respectively. Inputs 1 and 2 will also be linked with the activation of relays 1 and 2, respectively, to operate as "exit push-buttons".

Any other use different than these is not contemplated and will be object of separate study.

3.11. CONFIGURATION OF A ZVP-ACTAM MODULE

No programming is applied to this module.

3.12. CONFIGURATION OF A ZVP-ACSR MODULE

The inclusion of the safety relay implies changing the configuration of the opening type in the "switch" to which it is associated and the elimination of the input that acts as the "exit push-button" of such switch.

If an “exit push-button” is required, it must be connected to the terminals available for this purpose on the ZVP-ACSR itself.

3.13. CONFIGURATION OF A ZVP-ACBLP MODULE

No programming is applied to this module.

4. APPLICATION EXAMPLES:

4.1. SINGLE FAMILY HOME

Example 1: Single home with two indoor units.

REF.	DESCRIPTION	PCS
8500018	Basic programming for single home video intercom project with 1 GetFace IP unit and up to 4 indoor units (*)	1

Example 2: Single home with 4 outdoor units and 6 indoor units.

REF.	DESCRIPTION	PCS
8500018	Basic programming for single home video intercom project with 1 GetFace IP unit and up to 4 indoor units (*)	1
8500020	Additional programming of up to 3 more GetFace IP units and 8 more indoor units with respect to **8500018** (**8500018** required) (*)	1

Example 3: Single home with 10 outdoor units and 18 indoor units.

REF.	DESCRIPTION	PCS
8500018	Basic programming for single home video intercom project with 1 GetFace IP unit and up to 4 indoor units (*)	1
8500019	Additional programming of up to 4 more GetFace IP units with respect to **8500018** (**8500018** required) (*)	1
8500020	Additional programming of up to 3 more GetFace IP units and 8 more indoor units with respect to **8500018** (**8500018** required) (*)	2

4.2. RESIDENTIAL BUILDINGS

Example 1: Building with 5 apartments.

REF.	DESCRIPTION	PCS
8500024	Basic programming for video intercom project in residential building with 1 GetFace IP unit and up to 7 apartments (*)	1

Example 2: Building with 10 apartments.

REF.	DESCRIPTION	PCS
8500024	Basic programming for video intercom project in residential building with 1 GetFace IP unit and up to 7 apartments (*)	1

8500025	Additional programming of up to 10 more apartments with respect to **8500024** (**8500024** is required) (*)	1

Example 3: Building with 10 apartments and two entrances (one GetFace IP per entrance)

REF.	DESCRIPTION	PCS
8500024	Basic programming for video intercom project in residential building with 1 GetFace IP unit and up to 7 apartments (*)	1
8500026	Additional programming of up to 1 more GetFace IP unit and 5 more apartments with respect to **8500024** (**8500024** is required) (*)	1

Example 2: Community with 300 apartments and concierge (301 apartments) and made up of 12 block and a main entrance (13 GetFace IP units). It includes internal calls between apartments and concierge and ZenCom preconfiguration.

REF.	DESCRIPTION	PCS
8500024	Basic programming for video intercom project in residential building with 1 GetFace IP unit and up to 7 apartments (*)	1
8500025	Additional programming of up to 10 more apartments with respect to **8500024** (**8500024** is required) (*)	30
8500027	Additional programming of up to 3 more GetFace IP units with respect to **8500024** (**8500024** is required) (*)	4