How to define and integrate the Simplex Fire panel in EntraPass

This application note explains how to configure the Simplex Fire panel using EntraPass Workstation.

Requirements

You need the following components to configure the Simplex Fire panel:

- EntraPass v6.00.34 or higher:
  - Special Edition
  - Corporate Edition
  - Global Edition
- CBLK-SG cable kit, RS-232 connection only
- Gateway:
  - Multi-site Gateway
  - Global Windows Gateway
  - KT-NCC
- Pass-through controller:
  - KT-400 v1.15 or higher
  - KT-1-PCB, EntraPass v6.02 or higher
- Simplex panels:
  - 4100ES
  - 4100U
  - 4010ES

The Simplex panel

The Simplex team configures the panel. They mount all the boards and they complete device definitions. Completed definitions meet the topology of the customer's building, and examples include the pull station and the smoke detector.

The panel must have a Dual RS-232 interface board and, for the integration, you must use Port B and configure the interface board so all events generated by the Simplex panel use Port B. See the following table for service parts.

Simplex panel	Product Identification (PID)	Description
4100ES	4100-6038	Dual RS-232 interface card legacy (slot type)
	4100-6046	Dual RS-232 interface module 4 x 5 flat card
4100U	4100-6038	Dual RS-232 interface card legacy (slot type)
4010ES	4010-9918	Dual RS-232 interface module 4 x 5 flat card

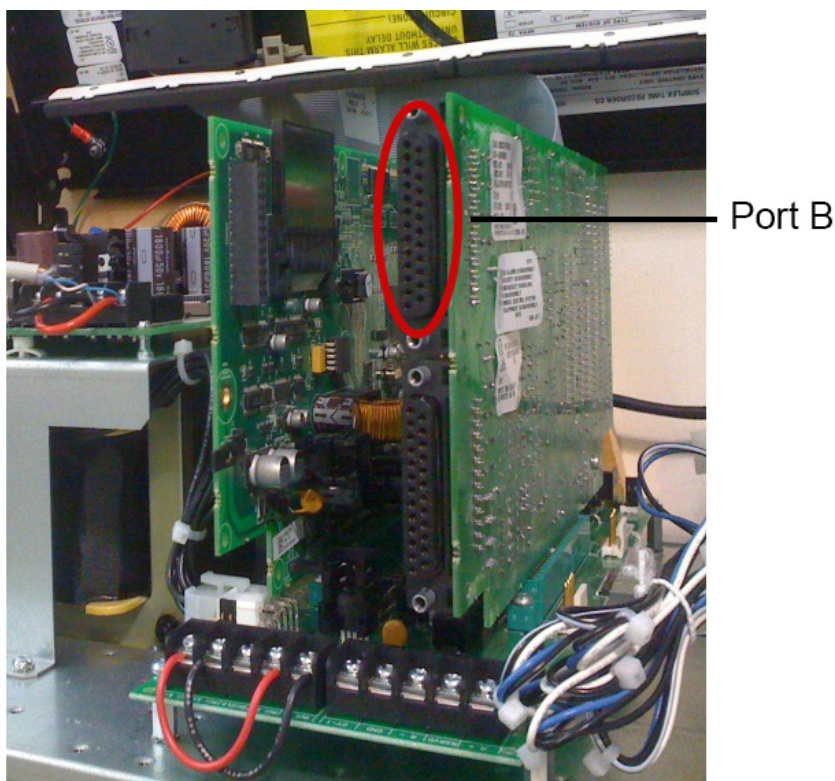**Table:** Simplex panels and sales feature PIDs

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Figure 1: Simplex panel

Configuring the Simplex 4100ES panel

To program the Simplex panel, launch the **EntraPass Workstation** and complete the following steps:

1. Click the **Devices** tab, **Integrated Panel,** and then click the **New** button.
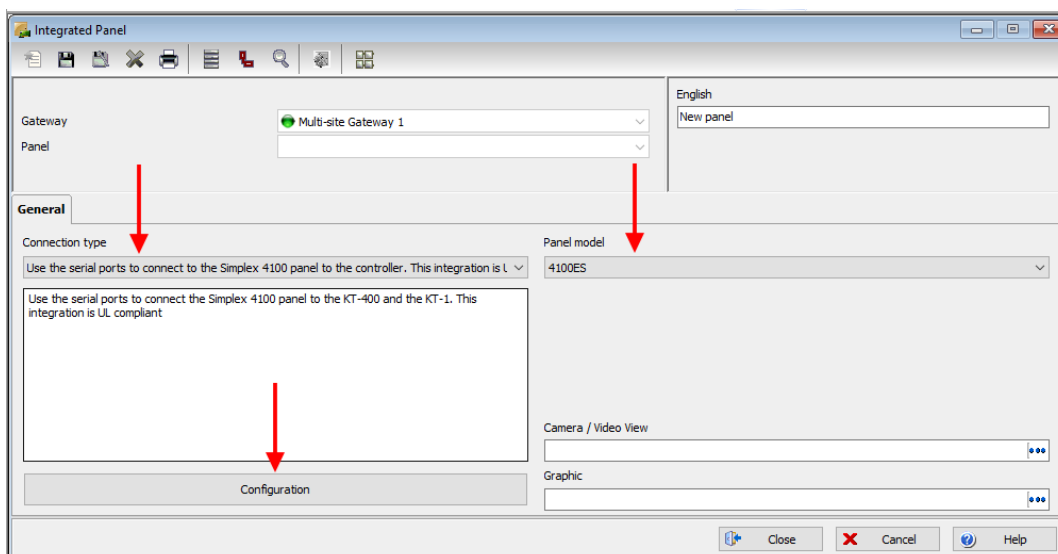

Figure 2: Integrated Panel

2. Select a Gateway from the **Gateway** list.
3. Type a panel name in the **English** field, and click the **Save** Button.
4. Select the appropriate connection from the **Connection type** list. These are some examples:
    a. Simplex 4100, Gateway serial connection, UL Compliant.
    b. Simplex 4100, KT400 serial connection, UL Compliant.
    c. Simplex 4100, KTNCC serial connection, UL Compliant.
    d. Simplex 4100, NTNCC to KT400/KT-1 serial connection, UL Compliant.

    Note: The panel model will be 4xxx depending on the model used. The subsequent panel differs for a Gateway connection and a Controller connection.

5. Click the **Configuration** button to open the Simplex panel configuration pane. The type of configuration pane will depend on, which **Connection type** you choose.
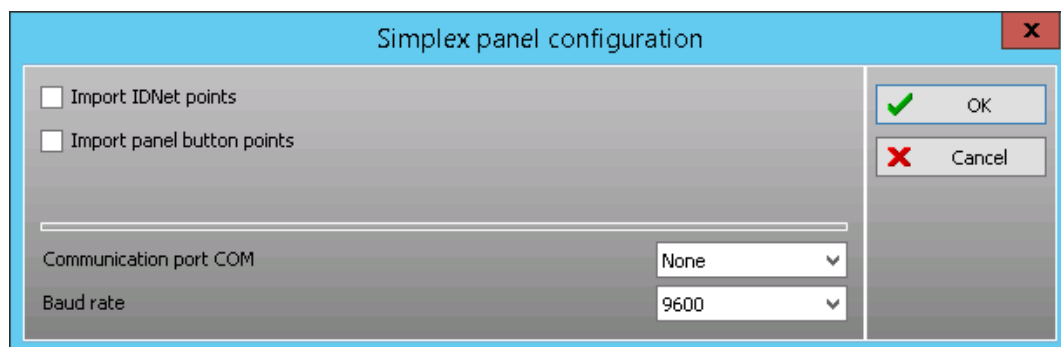   *   If you select a Gateway connection, you will see the following panel.

Figure 3: Simplex panel configuration for a Gateway connection

a. Select from the following import options:
    *   **Import IDNet points**: this will import IDNet point information and labels from the Simplex panel.
    *   **Import panel button points**: this will import the front panel, point identification.
b. Select the appropriate values from the **Communication port COM** and **Baud rate** lists. Click **OK**.
    Note: At this point, the Simplex panel should synchronize with the Gateway or controller.

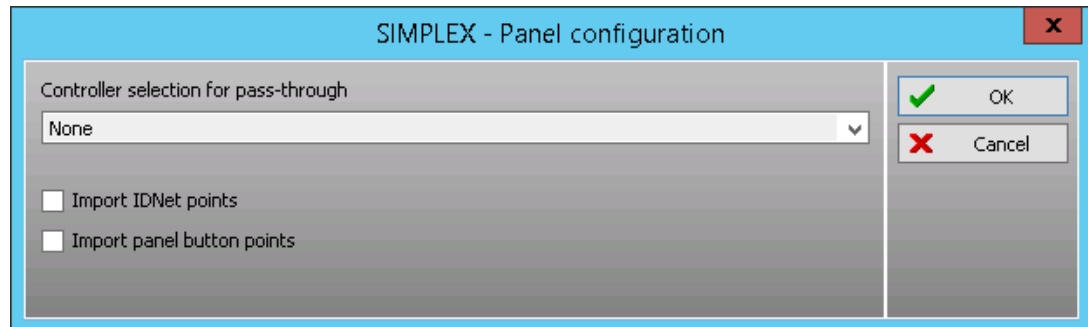- If you select a Controller connection, you will see this panel.

Figure 4: SIMPLEX – Panel configuration for a Controller connection

 a. Select the appropriate controller for your setup.
 b. Select from the following import options:
- **Import IDNet points**: this will import IDNet point information and labels from the Simplex panel.
- **Import panel button points**: this will import the front panel, point identification.

 Note: At this point, the Simplex panel should synchronize with the Gateway or controller.

6. To confirm the communication status, click the **Operation** tab and **Integrated Panel** from the menu. You should now see the point labels.
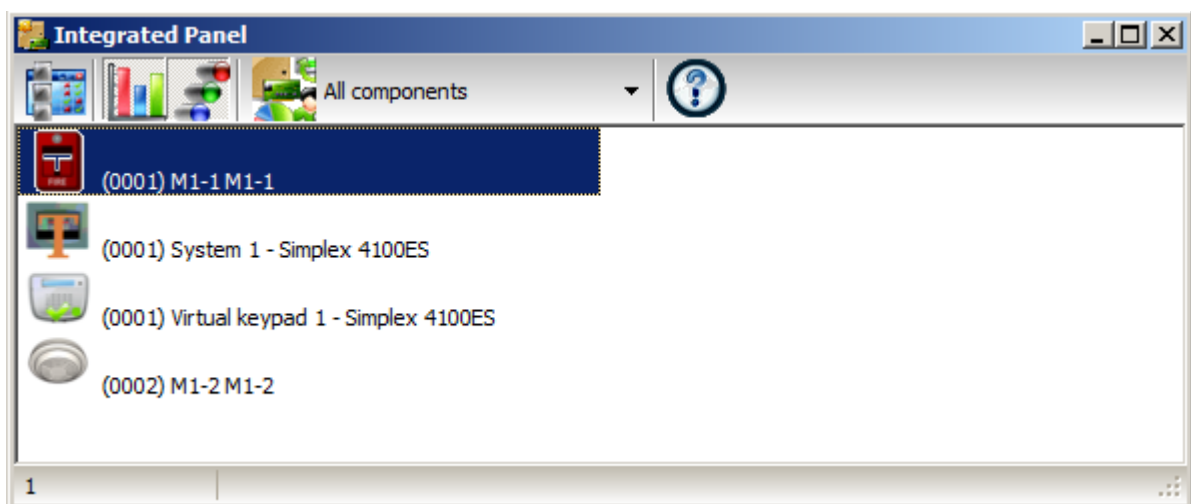

Figure 5: Integrated Panel

Supporting integrated components in EntraPass

EntraPass supports **IDNet points** and Pseudo points. EntraPass automatically imports **IDNet points.** The Operator must define the Pseudo points. A Pseudo point is always unique. It has its own address that is composed of three parts. These include:

- Board slot

  Note: Simplex uses Card slot but to avoid confusion with Kantech's definition of card we use board.

- Point value
- SubPoint value

EntraPass automatically performs the following functions:

- Use the unique address property to get the point related information from the panel and to assess what type of action or status report is required.
- Upload the labels from the panel of any point defined within EntraPass and save the labels into its database.
- Manage the pull station and the smoke detector devices according to development requirements.
- Allocate a generic point to devices other than the pull station and the smoke detector. Kantech will provide specific icons for these devices as required.

  Note: DLL currently supports up to 2000 points.

Configuring the Pseudo points

To configure the Pseudo points in EntraPass complete the following steps:

1. Click the **Devices** tab, **Integrated Component,** and then click the **New** button**.**
2. Click the **Configuration** button to open the Simplex - Point configuration pane.

Figure 6: Simplex – Point configuration

3. Type the designated values in the **Board slot**, **Point**, and **SubPoint** fields.

4. Click **OK** to return to the **Integrated Component** window. You should see a new point label in the **Component** field that EntraPass has imported from the panel.
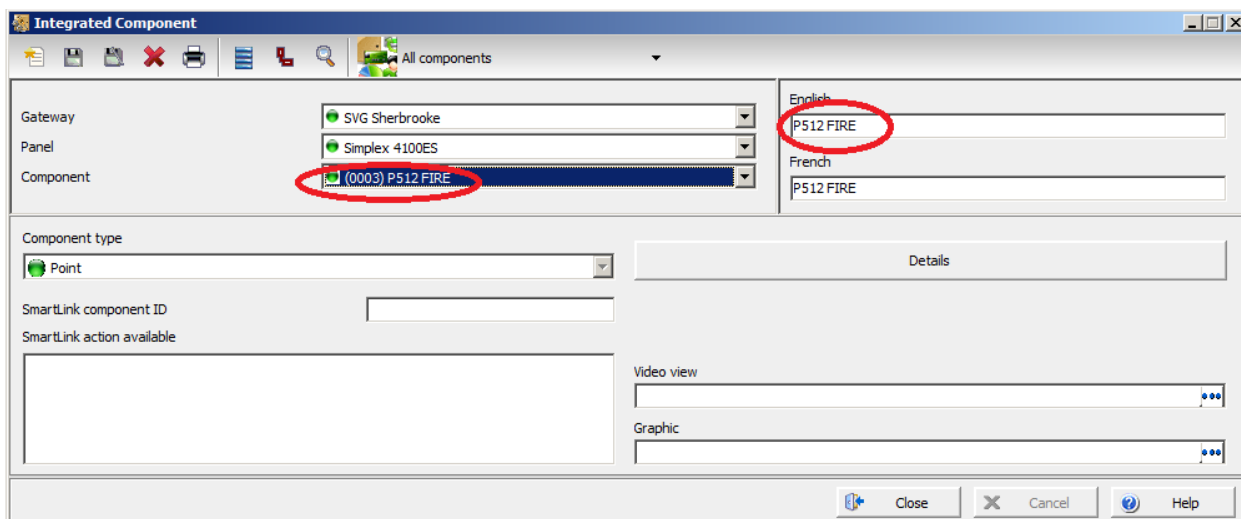

Figure 7: Integrated Component

5. To confirm the Pseudo point communication status, click the **Operation** tab and then **Integrated Panel** from the menu. You should now see a new point.
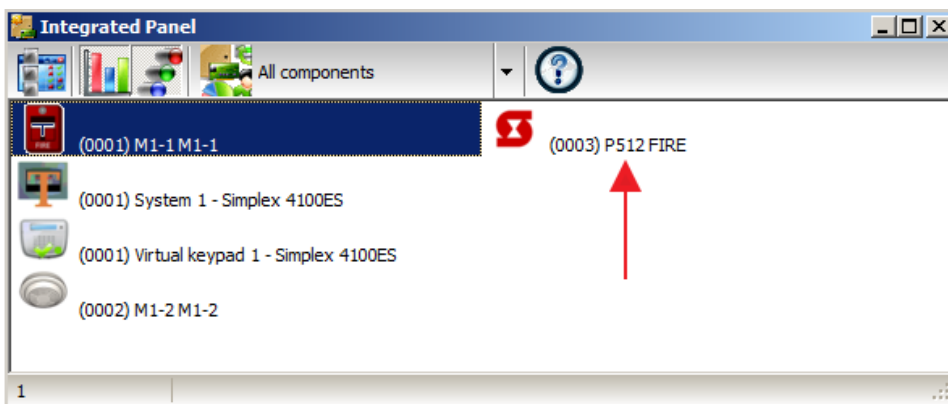

Figure 8: Integrated Panel

Point status

Depending on the device type and the point type, different conditions may occur. Multiple conditions may exist at the same time on a Simplex component. Depending on how you program the device there are two types of alarm reports and two types of system warnings available:

- **Fire alarm:** Indicates the detection of smoke or heat that may be associated with a fire.
- **Priority2 alarm:** Indicates an intrusion to doors and windows, it is a security breach.
- **Supervisory warning:** Indicates the detection of a water value closure. This warning requires the attention of an operator but is not a life safety situation.
- **Trouble warning:** Indicates a fault condition. Fault conditions include device failure, earth ground detection, and short circuit detection.

The following table shows the panel icons that are associated with the fault condition. The conditions start with the highest priority condition descending to the lowest.

Panel condition	Full status text	Priority	Icon
Unknown	Unknown	1 (Highest)	
Fire ack required	Fire, acknowledgment required	2	
Fire is acknowledged	Fire	3	
Priority2 ack required	Priority2, acknowledgment required	4	
Priority2 is acknowledged	Priority 2	5	
Supervisory ack required	Supervisory, acknowledgment required	6	

Panel condition	Full status text	Priority	Icon
Supervisory is acknowledged	Supervisory	7	
Trouble ack required	Trouble, acknowledgment required	8	
Trouble is acknowledged	Trouble	9	
Fire restore ack req	Fire restore, acknowledge required	10	
Priority2 restore ack req	Priority2 restore, acknowledgment required		
Supervisory restore ack req	Supervisory restore, acknowledgment required		
Trouble restore ack req	Trouble restore, acknowledgment required		
OK	OK **Note:** EntraPass automatically detects and applies the pull station icon and the smoke detector icon. EntraPass applies the Simplex symbol for any other device or pseudo point it detects.	11 (Lowest)	
	Generic device or pseudo point activated, acknowledgment required	12	

Table: Panel conditions and their icons

Virtual Keypad

You will see the Simplex virtual keypad on the front of the panel. It provides a real-time status report on the alarms and system warnings, the interface is read only.
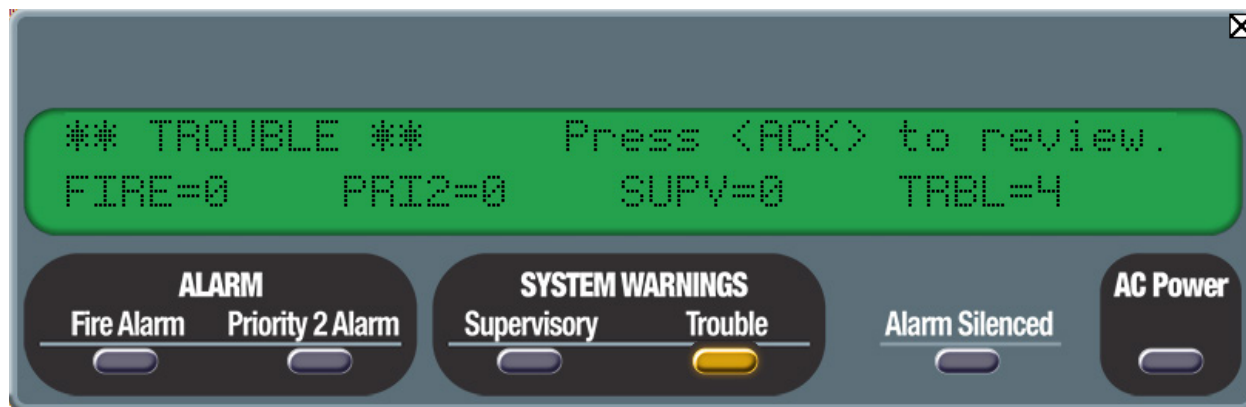

Figure 9: Simplex virtual keypad

Technical support

For technical assistance, contact technical support, Monday to Friday. The following table lists technical support phone numbers.

USA and Canada	GMT - 05:00		
North America	Toll Free	+1 888 222 1560	08:00 to 20:00
	Direct	+1 450 444 2030	kantechsupport@tycoint.com
Latin America	GMT - 03:00		
Argentina, Buenos Aires	Direct	+54 11 5199 3104	08:00 to 20:00
Brazil, Sao Paolo	Direct	+55 11 3181 7377	ingenieria@tycoint.com
Chile, Santiago	Direct	+56 2 3210 9662	
Colombia, Bogota	Direct	+57 1 344 1422	
Colombia, Cali	Direct	+57 2 891 2476	
Colombia, Medellin	Direct	+57 4 204 0519	
Costa Rica, National	Direct	+506 4 000 1655	
Dominican Republic, Santo Domingo	Direct	+1 829 235 3047	
El Salvador, San Salvador	Direct	+503 2 136 8703	
Guatemala, Guatemala City	Direct	+502 2 268 1206	
Mexico, Mexico City	Direct	+52 55 8526 1801	
Panama, Panama City	Direct	+507 836 6265	
Peru, Lima	Direct	+51 1 642 9707	
Venezuela, Caracas	Direct	+58 212 720 2340	
Asia	GMT + 08:00		
	Toll free	+800 CALL TYCO	09:00 to 17:00
	Toll free	+800 2255 8926	apac.support@tycoint.com
	Direct	+86 21 6023 0650	
China	Direct	+400 671 1528	
India	Direct	+1 800 1082 008	
Australia	Direct	+02 9684 3980	
EMEA	GMT + 01:00		
United Kingdom	Direct	+44 330 777 1300	08:00 TO 18:00
Israel	Direct	+972 772 201 350	emea-accesscontrol-support@tycoint.com
Spain	Direct	+900 99 31 61	
France	Direct	+0800 90 79 72	
Germany	Direct	+0800 1806 757	
Italy	Direct	+39 0230 510 112	
Belgium	Direct	+0800 76 452	
Ireland	Direct	+180 094 3570	
Bahrain	Direct	+800 04127	
Nordic Countries	Direct	+45 4494 9001	
Greece	Direct	+00800 3122 9453	
Russia	Direct	+81 0800 2052 1031	
Turkey	Direct	+00800 31923007	
United Arab Emirates	Direct	+800 03107123	
South Africa	Direct	+27 21100 3882	

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