application sheet
RAKO CONTROLS
BRIDGE APPLICATION SHEET

Introduction

The Bridge acts as a central point of a Rako installation and is necessary for App control and programming features. Bridges also offer additional functionality and system integration.

When connected to a router, either directly or through a network connection, the Bridge interfaces with a wide range of systems including smart devices running the Rako App.

	RA	WA	RTC	WTC
App/Software	✔	✔	✔	✔
Project file storage	✔	✔	✔	✔
Wired-Wireless		✔		✔
Mapping			✔	✔
Macros			✔	✔
Events			✔	✔
Holiday Mode			✔	✔

Types of Bridges

Bridges come in five types

RA - Basic Wireless Bridge

WA - Basic Wired Bridge

**RTC** - Wireless Bridge with time clock module (TCM)

WTC - Wired Bridge with time clock module (TCM)

WRA232 - For integration with 3rd party control systems via either IP or 232 protocols

NB
The time clock module (TCM) can be added to RA or WA Bridges as an upgrade.

Basic RA or WA Bridge
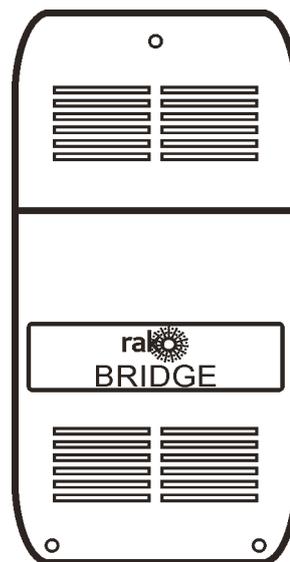
Bridge with TCM module
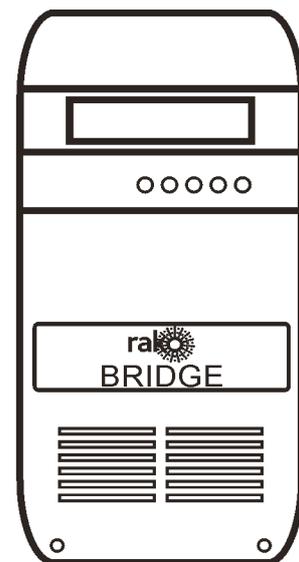
App Control

The Rako App allows direct control of a system from a virtual keypad. Scene setting and individual channel adjustment is also possible. When used in conjunction with a TC Bridge (RTC and WTC) the App can also control timed events and holiday mode.

Remote control is also possible when remote access of the router has been set up.

App user guide

Wired-Wireless functionality

The WA and and WTC Bridges with their wired (CAN) connection allow for "wired/wireless" integration when used in a combined system, linking wired and wireless elements.

Combined application sheet

System Programming

The Bridge is essential for programming a wired or combined system. For wireless only set-ups a Bridge allows software programming as an alternative to the RAMPI interface, both of which allow access to more features than manual configuration.

Rasoft programming guides

## Storing the Project file information

System Bridges can store a basic project file, accessible by the App, giving Room, Channel and Scene information. This can be downloaded into a Rasoft project file, providing a backup should the original programming information be lost.
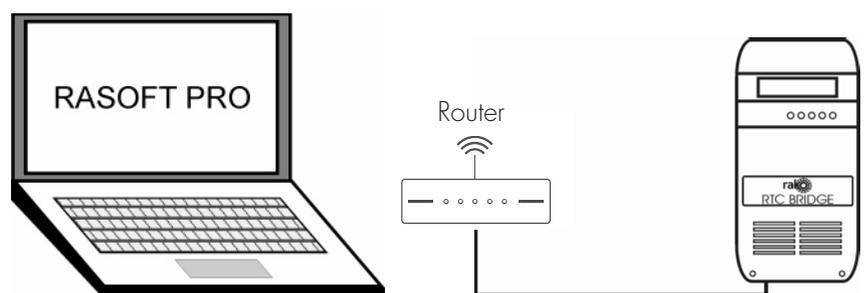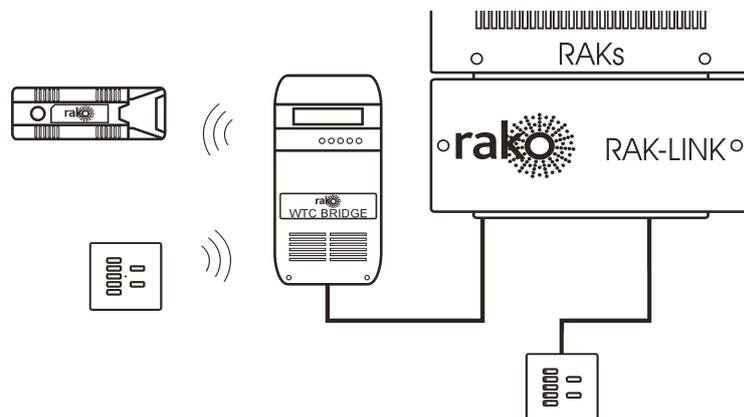
The Time clock

Integral to the RTC and WTC Bridges the TCM can also be bought seperately as an upgrade for basic RA and WA Bridges. A bridge with a TCM offers:

- Mappings

- Macros

- Events

- Holiday Mode
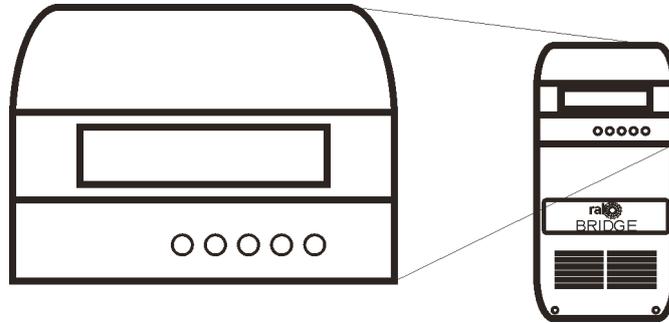
Mappings

A mapping allows one system command to be redirected to another action or actions.

Examples can range from controlling scenes in multiple rooms (by mapping one scene to another) to enabling/disabling timed events.

Maps can be configured to only happen under certain conditions, such as on a specific day of the week.

Source Command

e.g. Scene 1
Scene 2
Off
Fade

Output Action

e.g.Scene
Fade
Macro Trigger
Macro Control
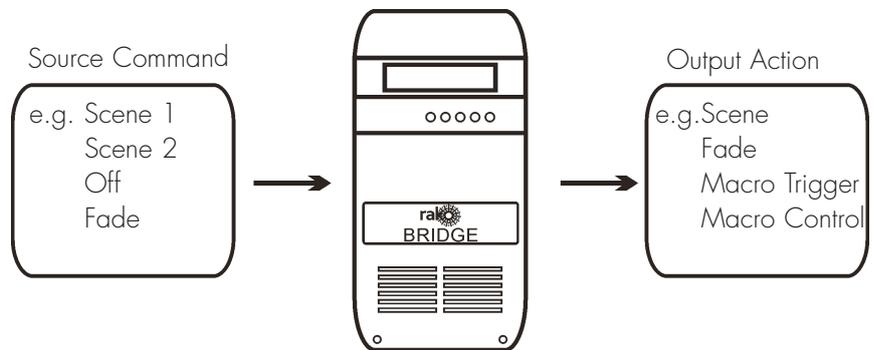
Macros

Macros are a sequence of actions. They can be started, stopped, re-started and paused by Mappings or Events.

A Macro sequence can be as simple as a list of commands to transmit staggered by time delays. Alternatively they can be multi input control sequences relying on numerous conditions.

Trigger

e.g. Start
Stop
Pause
Cont.

Macro

Step 1
Step 2
Step 3
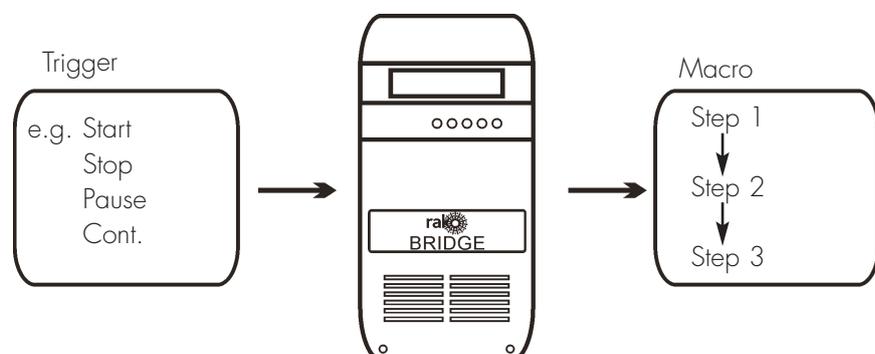
Events

Timed events can be programmed to happen at specific times, or relative to dawn/dusk or only on set days of the week. Events can be added, viewed and altered from the Rako App or Rasoft Pro software.
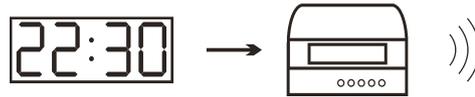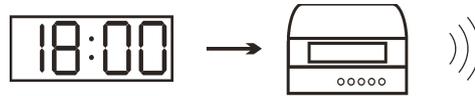
Holiday Mode

Holiday mode allows the Bridge to record normal activity and replay this while the property is empty to simulate occupancy. This may include blinds and curtains opening and closing as normal. Rooms can be specifically excluded to avoid problems such as electric gates opening as recorded.
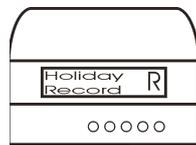
Integration with 3rd Party control systems

Using the appropriate Bridge it is possible to integrate the system with a wide variety of home automation including: Control 4, Elan, Crestron and RTI.

Two way communication between Rako and other control systems is available meaning a Rako keypad can also be used to control 3rd party system components.
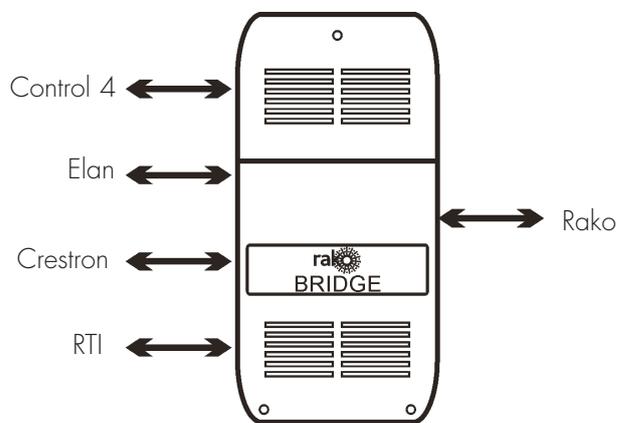
System integration and drivers

Cloud Gateway

The Cloud Gateway provides an interface between devices such as Amazon Alexa, Google Home, Apple Homekit, Sonos and a Rako system. Voice commands from these devices can be used to control lights, curtains and blinds.

Lights can be turned on and off, scenes selected and curtains/blinds opened and closed.