A NEW WAY
TO CONNECT PEOPLE
TO ACCESS

SALLIS
by SALTO

Sielox

SALTO SALLIS | *Sielox Pinnacle*

SALTO and Sielox team up in a new way to connect people to access

Pinnacle Access Control and Event Management Software with the most advanced AC- 1700 Controller in the market integrates with the industry leading SALLIS Wireless Locks for a cost effective installation.

SALLIS is a new technology that enables users to expand their existing Pinnacle (version 9) system to become a much more powerful solution. Installation made simple because of the broad range of **SALLIS** Wireless Lock choices for almost any type of door (narrow profile, aluminium, heavy duty, panic bars, blass, etc.).

Control doors or openings you never dreamed of controlling before because they were too costly, difficult to wire, or impossible to drill. Now any entry door, room, or storage area can be connected to Pinnacle providing real time event management, alarm pop-up, email notification, operator actions, audit trail, link to video, and elimination of keys – just to name a few.

Maintain your high security standards because **SALLIS** does not use WI-FI but utilizes wireless communications at 2.4 gHz based on IEEE 802.15.4 with AES 128 encryption. Even when the server is offline, access control is not compromised because full control and operation is maintained at the lock through the Sielox AC-1700 controller.

SALLIS is a cost effective technology that incorporates the Lock, Request to Exit, Door Status Switch, and Reader in one complete package dramatically reducing the installation costs compared to traditional hard-wired doors. Install one device rather than four and recognize significant savings in time and material with an average per-door installation time of less than 1 hour.

Keep your current card credential and expand to wireless locks that support the latest RFID technologies such as HID iClass CSN, Mifare, Mifare Plus, DESFire, DESFire EV1, PROX 125 kHz or Near Field Communications (NFC).

SYSTEM BENEFITS

- Cost Effective
- Real Time Access Control
- Real Time Monitoring
- Event Management
- Lockdown - Block - Unlock capabilities

- Flexible Reporting
- Audit Trail
- Remote Battery Status
- Control maintained in off line state
- Email notification

SALLIS by SALTO

Sielox

SALTO inspired**access**

HOW DOES
IT WORK?

SALLIS is a new technology that enables you to expand your Pinnacle access control system utilizing the **SALTO SALLIS** wireless platform in conjunction with AC-1700 Main Controllers. It extends the capability of your access control system to virtually any kind of door without the need for any complex wiring.

The **SALLIS** wireless platform consists of 4 elements that interact with each other, to define the architecture of the system - Controller, Router, Node and Locking Device.

The AC-1700 Main Controller maintains a fully distributed configuration for cardholders, access levels, time zones, readers, locks and other devices. All decisions are made by the controller and sent to the Pinnacle server for event management, alarm monitoring and archiving. A complete backup of all configuration files are maintained in the on-board SD card for instant recovery and off-line archiving.

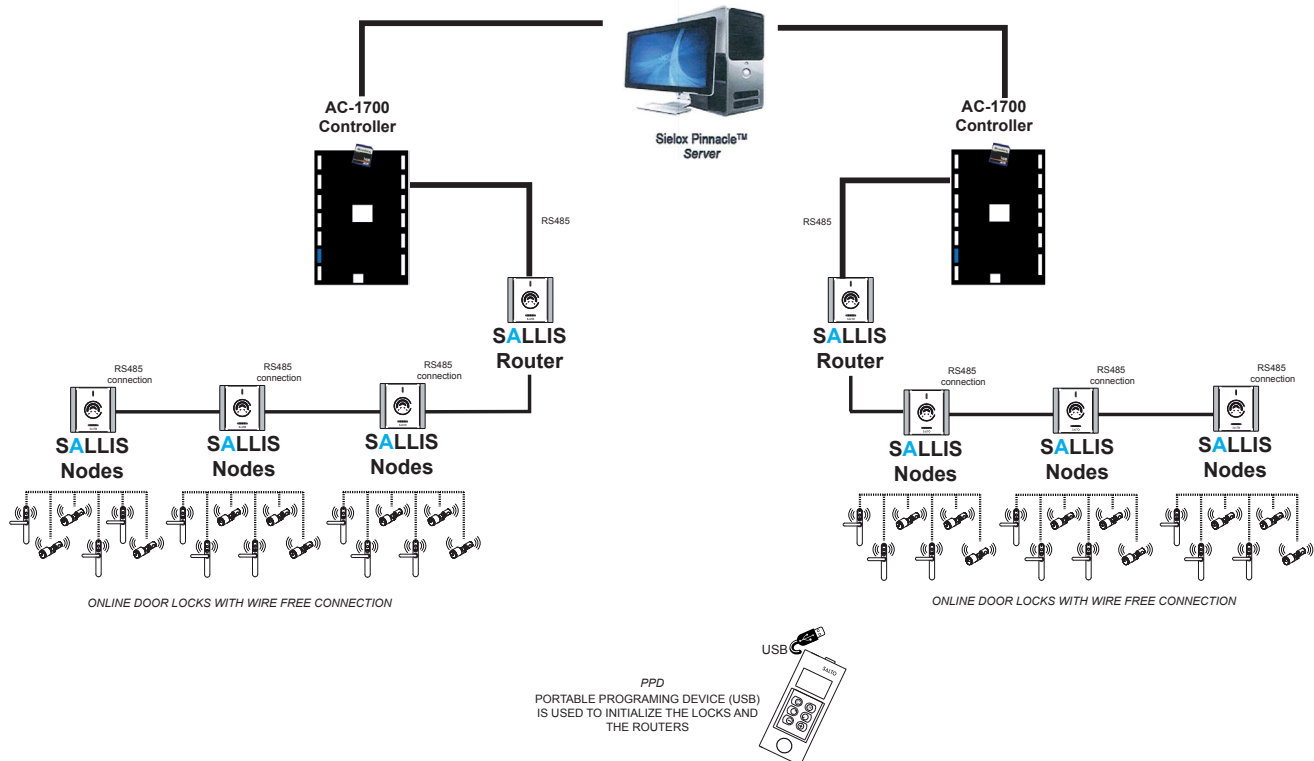|		
The **SALTO Routers** are the link between the AC-1700 controller and the SALTO Nodes enabling communication with the wireless system	The **SALTO Nodes** communicate in RS485 from the **SALTO Router** and IEEE 802.15.4 to the wireless locks extending the reach from the controller up to 4,000 feet.	**The Wireless Locking Devices** are the core core of the locking system. They provide control of doors without the need for costly wiring

COMMUNICATION FLOW

The cardholder presents their credential to the **SALTO SALLIS** lock. In a fraction of a second, the controller will verify the cardholder's access level and grant or deny access depending on the configuration in the controller. An operator can take action on the **SALTO SALLIS** door and manually lock or unlock the door, or block the reader and deny access except to privileged card holders.

SYSTEM ARCHITECTURE

AC-1700 Controller

Sielox Pinnacle™ Server

AC-1700 Controller

RS485

RS485

SALLIS Router

SALLIS Router

RS485 connection

SALLIS Nodes

ONLINE DOOR LOCKS WITH WIRE FREE CONNECTION

ONLINE DOOR LOCKS WITH WIRE FREE CONNECTION

USB

PPD
PORTABLE PROGRAMING DEVICE (USB) IS USED TO INITIALIZE THE LOCKS AND THE ROUTERS

TECHNICAL
FEATURES

SALTO SALLIS Features

Wireless lock communication IEEE 802.15.4 with AES 128 encryption (not WIFI)

Supported card technologies include Mifare, Mifare Plus, DESFire, DESFire EV1, HID iCLASS CSN, HID PROX 125 kHz.

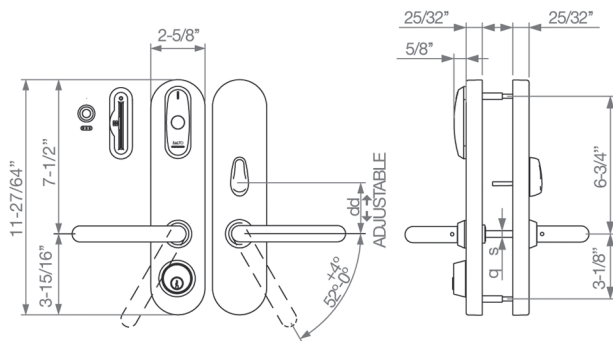Remote battery level status via AC-1700 maintenance port

Up to 16 wireless locks per AC-1700 main controller

When lock is offline to AC-1700, access decisions are based on admitted cardholder history

Lock is compatible with door thickness of 1 1/4'' to 4 1/2"

Lock body and escutcheon constructed of steel with optional key override

Full operation at lock when server is offline from AC-1700 Controller

SALTO SALLIS Lock Events and Actions (1)

Admited / Not time / Access Denied Event

REX Event (Opened by inside handle)

Door Forced Open / Closed events
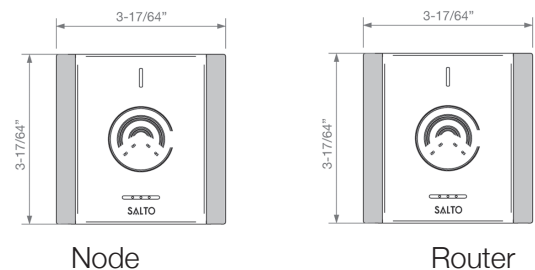
Door Left Open / Closed events

Door Unlocked / Locked via timezone events

Operator action Door Lock / Unlock / Momentary Unlock

Operator action Reader Block / Unblock

(1) Note: Operator actions for SALTO SALLIS locks may take from 1 to 8 seconds

SALTO SALLIS Lock Types

ANSI - Mortise - Cylindrical - Exit Devices

Cables

From 1700 Controller to SALLIS Router
From SALLIS Router to SALLIS Node
RS485 (Shield twisted pair, 22AWG)
(4,000 feet maximum) Belden 8723

Communication Range

Wireless locks up to 30 ft. radius from Node

Certifications

EN 1643-2 EL 160 Fire Resistant
UL 10C Compliant (90 minute wooden doors)
IP45 Compliant

Power Requirements

12V DC for SALLIS Router and nodes
3-AAA Batteries for SALLIS Locks
Aproximately 55,000 Transactions

Operating Conditions

From -4º F to 158º

System Requirements

Pinnacle version 9 or higher
1700 Main Controller version 18.20 or higher

System Capacities

Pinnacle will support from 1 to unlimited locks (see Pinnacle datasheet for max number # of locks per system size).

SALLIS Router will support up to 16 Nodes
SALLIS Nodes will support up to 16 Locks

Relation can be 1 to 1 or 1 to many

Node   Router