

## PLATFORM TECHNICAL SPECIFICATIONS

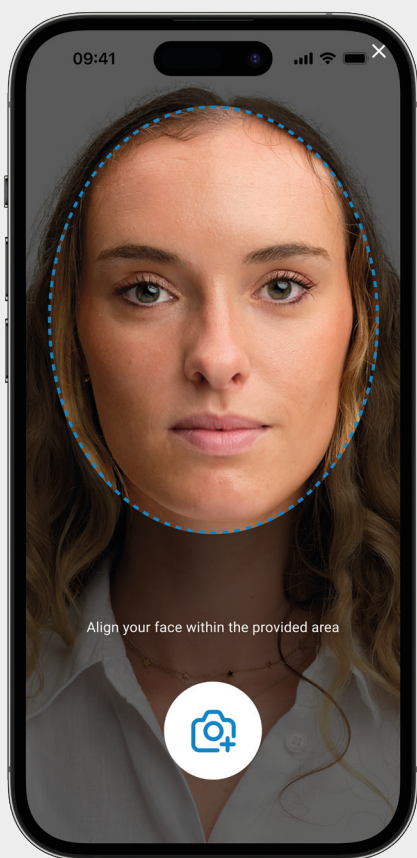
# Salto XS4 Face



## salto XS4 Face

A comprehensive overview of how XS4 Face face recognition access control works.

Salto XS4 Face offers streamlined access by using only face recognition for entry. The Salto face recognition access control system allows for effortless unlocking of doors simply by approaching them, with face being the sole required credential. It features a self-enrollment web app service to enhance user convenience. Designed with a focus on high security and privacy, ensuring a secure and compliant face enrollment process that delivers a seamless onboarding experience for users.



# Introduction to Salto XS4 Face

**Salto XS4 Face's all-in-one face recognition access control system delivers advanced security and privacy features, offering the convenience of face access by using face recognition for entry.**

By removing the need for traditional physical keycards or mobile credentials, users can effortlessly gain access to Salto access points with their unique face credential. This cutting-edge technology not only streamlines the access process, but also enhances security by eliminating the risk of lost, stolen or borrowed credentials.

## Fast and frictionless access control

**XS4 Face ensures secure, convenient, and fast access to places, utilizing cutting-edge face recognition.**

Control who can enter and leave the facility through specific doors and entrances, minimising the risk of unauthorized access.

## Mobile self-enrolment

**Users enrol via the XS4 Face Enrollment Service web app, remotely from anywhere in the world, with any device.**

Safe, compliant and secure face registration procedure that provides users with a smooth onboarding experience. Streamline user recognition while maintaining high-security levels.

## Simplified installation and deployment

**The Software and Hardware installation, plus the Commissioning process are automated and simplified, removing a common pain point during the installation process.**

Installation support is provided with detailed product specifications and a GDPR Privacy compliance template. Designed to seamlessly integrate with existing Salto access control platforms and building infrastructure, offering a hassle-free setup.

## Built-in high security and privacy

**Salto XS4 Face, in combination with Salto smart locking technologies, meets the high standards set by the security industry.**

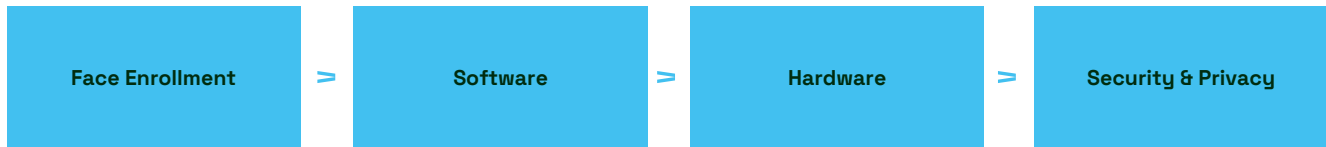
Salto XS4 Face's accuracy derives from Cognitec's pioneering algorithm, that has been tested and highly rated through the NIST Face Recognition Technology Evaluation (FRTE).

## XS4 Face: All-in-one face recognition access control system

By combining the advanced face recognition and electronic locking technologies of XS4 Face, our system delivers high levels of security and operational efficiency. It is also designed with a focus on convenience, security and privacy, seamlessly integrating with existing Salto security infrastructure to provide a comprehensive access control solution.

# Platform architecture

The system configuration and setup are designed with ease and convenience in mind. Now, thanks to Salto XS4 Face, face recognition access control can be offered with convenience for both installers and end users.



## Self-Enrollment

Through the enrollment process, users can create their profile remotely, within minutes.

## Enhanced Access Control Features

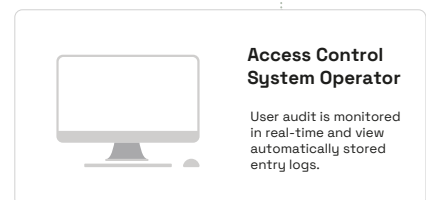
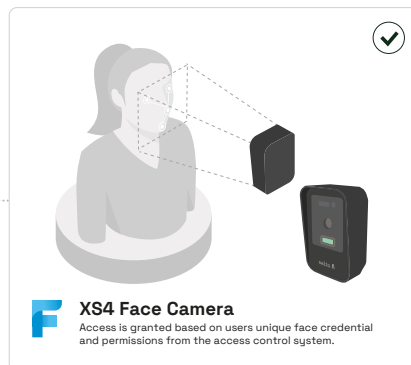
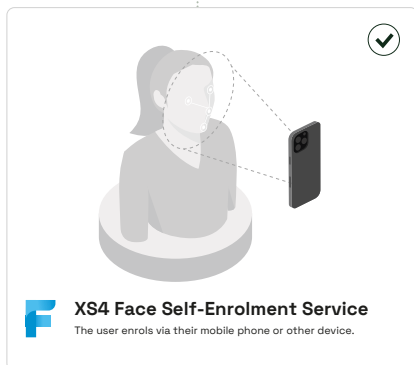
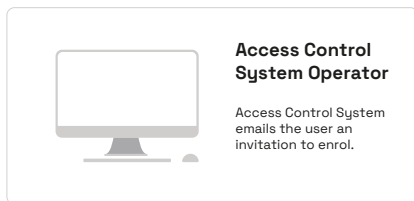
User-centered, web-based enrolment platform delivers enhanced control, system configuration and integrates seamlessly with existing access control operations.

## Modern Hardware Face Recognition System

Works with existing electronic Salto door locks and building infrastructure. The XS4 Face Device is comprised of minimalist, robust and reliable hardware, which requires only face as a credential.

## Built for High Security, Privacy, and Compliance

GDPR compliant, to reassure all stakeholders that their data is protected. The system features market-leading Presentation Attack Detection (PAD), effectively checking for a live face, and preventing unauthorized access through counterfeits such as photos or masks.



## Robust security, safety and privacy.



GDPR compliant and ISO 27001 certified to protect biometric data and user privacy.

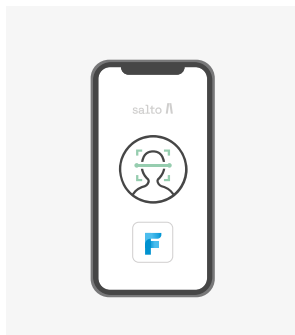
Salto XS4 Face is engineered for optimal security, and ensure the algorithm, software and hardware meet the highest standards set by the security industry.

Liveness Detection is a seamless element of the system, which takes place simultaneously to recognition, requiring no additional action or behaviour modification by the end user. XS4 Face has been successfully Penetration Tested by a leading independent and accredited testing consultancy. The tests have considered a wide range of attack risks including the OWASP Hierarchy of Application Security Risks.

# Infrastructure

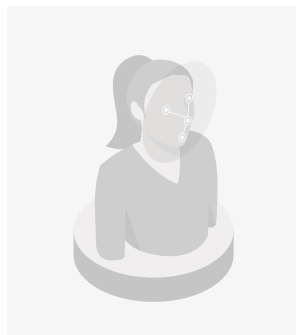
**The first all-in-one face recognition access control solution.**

Experience the power of face recognition in your access control. Salto XS4 Face's face recognition system is engineered to prioritize convenience for users and streamline operations. The process is effortless and the platform infrastructure combines Access Control + Face Recognition. Users can easily enroll via their personal devices, and simply approach an access point to unlock it with their face. The system ensures a fast and seamless experience, elevating the user's access control journey.



## Self-Enrolment Service

Users enrol via the XS4 Face Enrolment Service web app, remotely from anywhere in the world. This allows the user control, reduces resource requirements for the system admin, and supports reduced operator costs.



## Face Credential

Face recognition eliminates the need for traditional physical keycards or mobile credentials. This cutting-edge technology not only streamlines the access process, but also enhances security.



## Hardware

XS4 Face's minimalist, robust and reliable hardware comprises a modular camera and control unit. The UI is intuitive and user-friendly, requiring no physical contact.



## XS4 Face Console

The XS4 Face Console facilitates a simple and quick installation of XS4 Face, while also supporting system monitoring and maintenance.



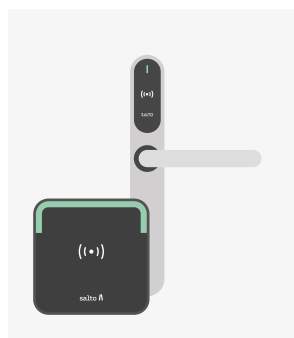
## XS4 Face Server

The XS4 Face Server is run on Linux operating system, Ubuntu. It holds the gallery, recognition, Liveness Detection, and supports up to 350 doors on a single server.



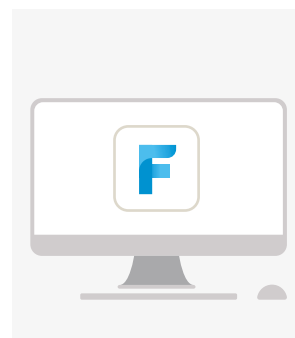
## Data Privacy & Security

The XS4 Face System has been designed to ensure that end user data privacy is maintained, and that the system enables the customer organization to remain compliant with data protection legislation.



## Access Control Hardware

Unique, simple-to-install and retrofit design with fully-customizable options that combines proven robustness, the highest quality in materials, the latest technologies, and elegant design – making it suitable for a wide range of access control applications.



## Operator Control

The access control system allows operators to select access points, times and dates of entry, and also to control who is invited to use their face as a credential. Permissions can be easily granted and revoked.

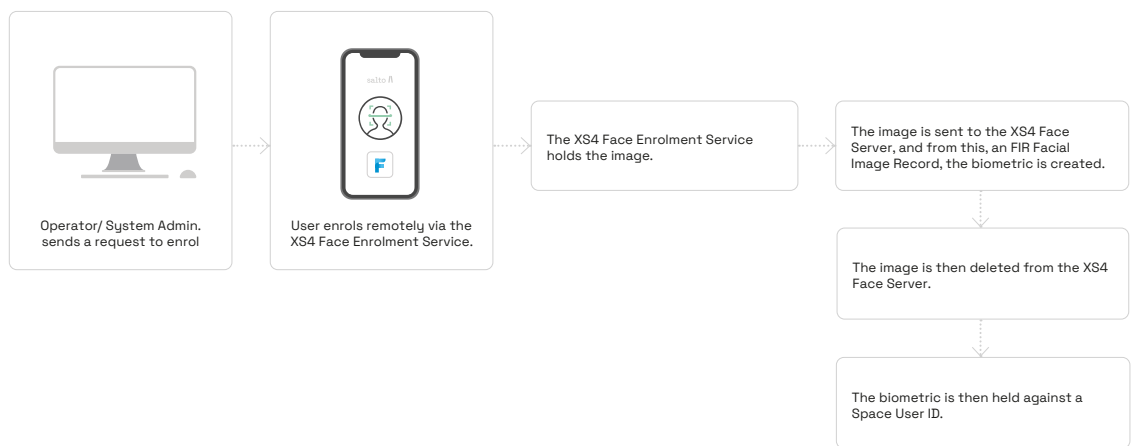
## How it works

By eliminating the need for traditional physical keycards or mobile credentials, users can effortlessly gain access to Salto access points with their unique face credential. This cutting-edge technology not only streamlines the access process, but also enhances security by eliminating the risk of lost or stolen credentials.

With the power of face recognition technology, we are redefining the way individuals can access spaces, delivering a solution that prioritizes convenience, security, privacy, and a seamless user experience. Salto is committed to innovation, and this is evidenced through the addition of XS4 Face to its future-facing portfolio.

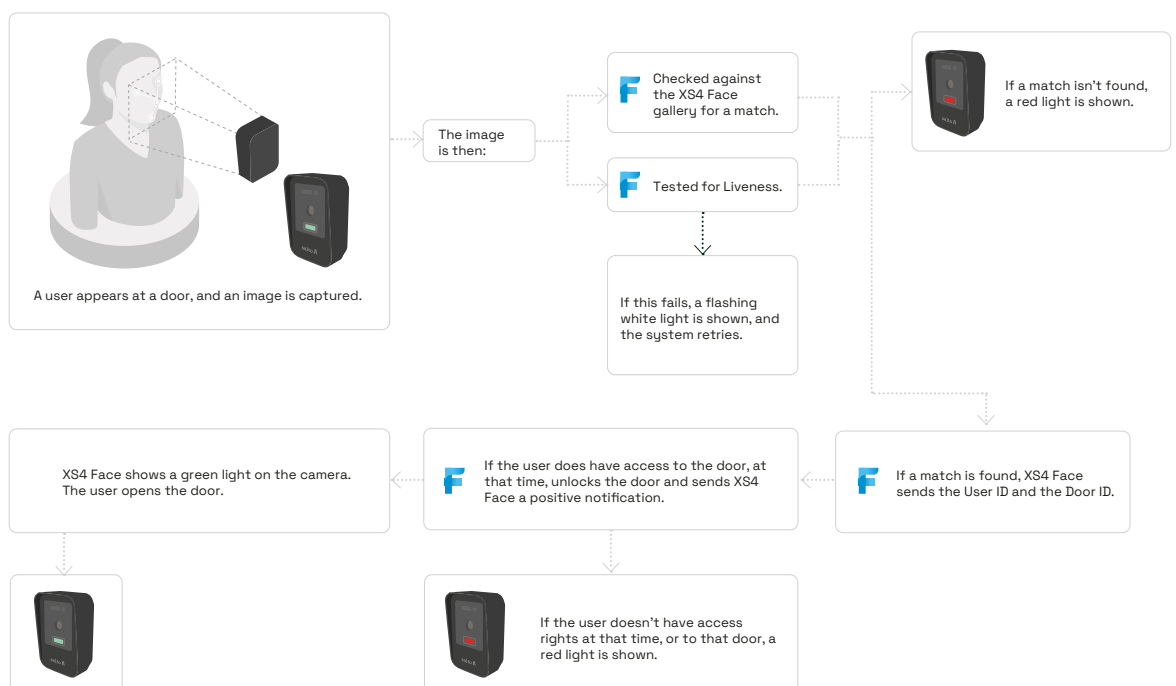
### Remote user enrolment:

Users enrol via the XS4 Face Enrolment Service web app, remotely from anywhere in the world. This is convenient for the end user, and by allowing them control, reduces resource requirements from the operator, and so supports reduced operator costs.



### Securely manage access:

Enable users to unlock a door with their face, using biometric technology.



# Tech. Specs

## XS4 Face Enrolment Service Web-App

The Salto XS4 Face Enrolment Service is a web-app, designed to work optimally in the latest versions of Google Chrome, Safari, Firefox, and Microsoft Edge. You may have trouble using certain features on older versions of browsers.

macOS	Safari Google Chrome Firefox
Windows	Microsoft Edge Google Chrome Firefox

## XS4 Face Device

Wired connection only. A supplied CAT6a SFTP LSOH 3m (blue) cable is for use between the Camera and Control Unit. Cat5 or Cat6 network cable of a longer length is acceptable between the Control Unit and the nearest switch. Does not use PoE.

## Firewall Settings

The XS4 Face Server, XS4 Face Devices and ACS should be on their own subnet and be able to communicate between themselves on port 443 and 123. The table below describes outbound connections only. No inbound ports to this subnet are needed.

Port	TCP	UDP	Usage
123	•		Synchronise system clock
443	•		Secure calls to ACS and subnet devices
8883	-	-	MQTT communication with XS4 Face Connect

## LANGUAGE VERSIONS

- English
- French
- French
- German
- Arabic
- Dutch

## IP and MAC

The XS4 Face Server, XS4 Face Devices and ACS work with IP addresses assigned by DHCP. As an alternative DHCP can assign a fixed IP based on MAC. Once the XS4 Face Server and XS4 Face Devices have been configured, the IP address must never be changed.

## WiFi

Wifi is not supported on XS4 Face Devices or the XS4 Face Server.

## Credentials

Salto XS4 Face face recognition access control enables secure and fast access, requiring only face as a credential.

## Compatible with

Salto Space	•
Salto KS	—
Salto Homelok	—

# GDPR Compliance

Salto is committed to protecting the privacy and data protection rights of all individuals and clients who entrust us with their data. This commitment, aligned with our company values and compliance culture, underscores our responsibility to guarantee the right to personal data protection, is also reflected in our access control solutions.

Accordingly, Salto has created the XS4 Face Privacy Guide, which informs our customers about the processing of personal data in the Salto XS4 Face solution.

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## INDEPENDENT LEGAL ANALYSIS AND REPORT

Salto ensures compliance with data protection regulations through an internal privacy team led by the Data Protection Officer and supported by external experts. This collaboration ensures that Salto XS4 Face adheres to EU GDPR principles. Our combined team has worked closely in conducting the Privacy by Design and Data Protection Compliance Assessment for Salto XS4 Face, and has validated the content of the Privacy Guide, access to which can be requested [here](#).

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**ROLES AND RESPONSIBILITIES** Salto XS4 Face involves a variety of parties, each with different roles and responsibilities from a data protection perspective:

- **Salto:** Acts as both data controller and data processor, depending on the specific processing activities carried out along the required steps. The processing activities carried out as data processor are regulated in Salto's data processing agreement.
- **Clients:** Act as data controllers, responsible for inviting users, converting images to biometric templates, and managing access control.
- **Users:** They are the data subjects who are enrolled in Salto XS4 Face.

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## PRIVACY IMPACT ASSESSMENT (PIA)

According to the GDPR, data controllers must carry out a privacy impact assessment for certain processing activities. In this case, Salto recommends that its Clients conduct a PIA before implementing Salto XS4 Face, given that the usage of the system involves processing data considered as sensitive data under the GDPR and implies the use of innovative technologies. Salto, as data processor, wishes to assist its Clients in this task and therefore provides in its Privacy Guide helpful information needed for the assessment.

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## PRINCIPLES RELATING TO PERSONAL DATA PROCESSING

Salto has addressed the compliance with the most relevant privacy principles set out in the GDPR, for example:

- Privacy by Design and by Default
- Transparency
- Lawfulness
- Fairness
- Purpose Limitation
- Data Minimisation
- Storage Limitation
- Technical and Organisational Measures

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## DISCLAIMER

We encourage our Clients to request access to the Privacy Guide in order to obtain more detailed information about the processing of personal data in Salto XS4 Face.

The XS4 Face Privacy Guide is intended solely for use by customers or potential customers of Salto for the purpose of learning about and assessing the suitability of Salto XS4 Face. Any other use, including but not limited to copying, distributing, creating derivative works, or any other form of utilization, is expressly prohibited without prior written consent from Salto. The Salto XS4 Face Privacy Guide and its contents are the intellectual property of Salto and are protected by copyright law.

Customers and potential customers may request access the Salto XS4 Face Privacy Guide [here](#).

## Salto Systems.

Get in touch with our team.

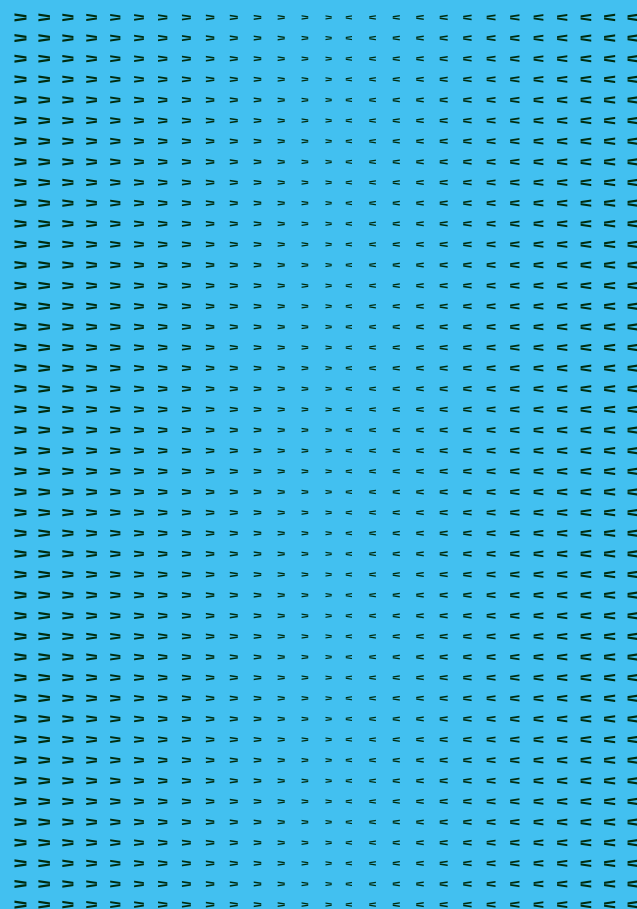
Give us a brief summary of your needs, your next project and we'll get back to you.

Spain, UK, France, Germany, Switzerland, The Netherlands, Belgium, Poland, Slovakia, Slovenia, Czech Republic, Denmark, Norway, Sweden, Finland, Italy, Portugal, US (NYC - Atlanta - LV), Canada, Mexico, Costa Rica, Colombia, Puerto Rico, Chile, UAE, India, South Africa, Singapore, China, Hong Kong, Korea, Vietnam, Australia, New Zealand.

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**SALTO WECOSYSTEM**