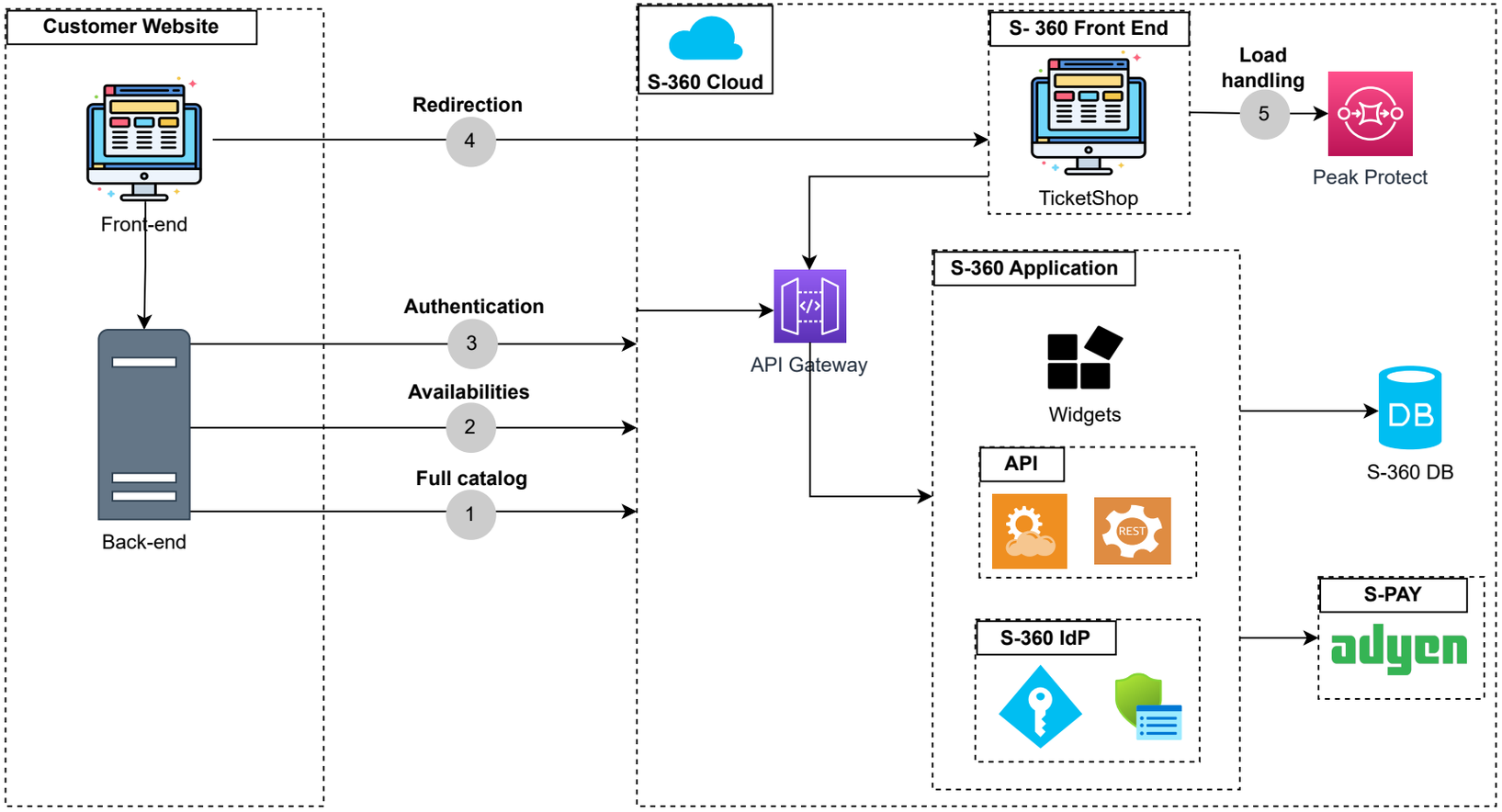
Reference Architecture diagram for website integration - catalog display

The Reference Architecture diagram illustrates how the SecuTix platform facilitates catalog integration, enabling seamless integration.

In this scenario, you can leverage our APIs to display the catalog of available tickets, and then redirect users to our standard ticketshop for ticket selection and for the remainder of the purchase user journey. This integration allows you to enhance the ticketing experience while still benefiting from the robust features of our default ticketshop.



1 **Full Catalog** : S-360 Catalog API, allows you to retrieve the full catalog. This includes detailed product descriptions, such as names, dates, tariffs, prices, and sales periods. Given that using the catalog API can be expensive and is subject to rate limits, it is crucial to implement an effective caching strategy and then just call **getLastSetupUpdate** (Catalog). For further information, please refer to the catalog backend API page.

2 **Availabilities** : S-360 offers an API for retrieving the catalog & availability updates. These availabilities are categorized using color codes. The availability service offers data access through four key methods:

- **getProductAvailability**,
- **getEventAvailability**,
- **getPerformanceAvailability,**
- **getSeatsAvailability**.

Typically, these are best used hourly, with a maximum frequency of 1 call per minute, particularly leveraging **getUpdatedAvailabilities** for monitoring product changes. To maintain data freshness while respecting API limits, implementing caller-side caching is recommended. You can find more information on the availabilities API pages.

3 **Authentication** : Numerous APIs are offered by the S-360 application to streamline authentication. While S-360 can act as an Identity Provider (IdP), activation of this function requires specific configurations. For insights into Single Sign-On (SSO) processes, consult the "S-360 as IdP" page.
Additionally, integration with third-party IdPs as a Service Provider (SP) is smoothly facilitated, guided by a well-structured architecture reference.

4 **Redirection** : When a user visits the customer's website, they will gain access to the catalog availabilities retrieved in step 1. Subsequently, when the user selects tickets (additional use cases for redirection are also specified), they will be smoothly directed to the S-360 Front End to continue their browsing/checkout experience. This redirection process is orchestrated by the customer application, which includes a well-defined and detailed set of redirection APIs integrated into buttons and functionalities. To identify the user and display content of current basket after the redirection you need to do standardization of the cookies.

5 **Load handling** : The S-360 Front-end is safeguarded by a robust solution known as Peak Protect, which effectively manages the load when a substantial number of customers access the ticket shop. This ensures a smooth navigation experience for a specified user base, employing a FIFO (First-In-First-Out) approach.
In cases where the customer anticipates increased load, the Secutix team can provide additional resources and technical assistance to ensure the best possible customer experience.

All the API definitions and specifications, can be found in the Secutix platform website.

SecuTix
THE TICKETING ENGAGEMENT PLATFORM

Reviewed for technical accuracy January, 2024

Secutix Architecture Reference