



A Holistic Approach to Sustainable, Digital EU Agriculture, Forestry, Livestock and Rural Development based on Reconfigurable Aerial Enablers and Edge Artificial Intelligence-on-Demand Systems

CHAMELEON D5.2 CHAMELEON Store, Brokering, and Matchmaking v1

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LIST OF ABBREVIATIONS AND ACRONYMS

Abbreviation	Meaning
DIP	Drone Innovation Platform
JS	Javascript
RGB	Red Green Blue
UAV	Unmanned Aerial Vehicle

1 EXECUTIVE SUMMARY

This document presents the first version of the CHAMELEON Store, its current development and integration state, the technologies utilized, as well as elaborating upon the brokering and matchmaking functionalities. Furthermore, the role of the CHAMELEON Store within the CHAMELEON project is presented. The initial views are also presented, along with the sequence diagrams that depict their internal functionalities. Finally, the future implementation and integration steps are provided.

2 INTRODUCTION

This deliverable serves as a comprehensive documentation of the initial version of the CHAMELEON Store. It documents fundamental aspects, providing an essential reference point for understanding the CHAMELEON store within the CHAMELEON project. To provide a clearer perspective, it also presents the CHAMELEON Store as a component within the larger context of the CHAMELEON ecosystem. This context is essential for gaining a clear understanding of why such components are being developed and how they contribute to achieving the goals of the project.

In the following "Implementation" chapter of this document, a thorough documentation of the methodology and strategies employed in designing and implementing the CHAMELEON Store is presented. This section delves into the details of architectural choices, technology selection, and the overall approach that guided the development process.

Moreover, the deliverable offers insights into how the CHAMELEON Store interacts with specific components of the CHAMELEON project. The purpose and significance of these interactions are explained in depth, documenting how they collectively compose an important part of the system's functionality.

Towards the end of this document, there is a section dedicated to the future steps and immediate actions related to the CHAMELEON Store component. These include planned enhancements, improvements, or additional development steps to further support its role within the project.

In sum, this deliverable is designed to provide a comprehensive and insightful resource, offering an in-depth exploration of the CHAMELEON Store, its context within the CHAMELEON ecosystem, the strategies behind its design and implementation, its integration with other project components, and the roadmap for its future development.

2.1 PURPOSE AND SCOPE

2.1.1 PURPOSE OF DOCUMENT

This document serves the purpose of documenting the CHAMELEON Store's initial version. It is a comprehensive repository of information detailing the fundamental aspects of the component, encompassing its design, implementation, and objectives. The primary aim is to offer a valuable resource that enables a thorough understanding of the CHAMELEON Store and its role within the CHAMELEON project.

2.1.2 SCOPE OF DOCUMENT

This document not only delves into the details of the CHAMELEON Store but also places it within the larger context of the CHAMELEON ecosystem. It offers the readers a holistic view, helping them comprehend how this specific component fits into the goals of the project. This document apart from the design insights also goes into the practicalities of the component's implementation, which is elaborated in the forthcoming "Implementation" chapter.

In summary, this document is designed as an encompassing resource to provide in-depth insights into the CHAMELEON Store, its relationship with the CHAMELEON project, the strategies behind its development, its role in the ecosystem, and the roadmap for its future.

2.2 STRUCTURE OF DOCUMENT

The rest of the document is structured as follows:

- **Section 1:** Provides an executive summary of this document.
- **Section 2:** This chapter serves as an introduction to this document, elaborating on its scope and content.
- **Section 3:** Provides context in the overall CHAMELEON project as well as outlines the approach behind the design and specification of the CHAMELEON Store. Furthermore, documents the interoperability under the CHAMELEON ecosystem.
- **Section 4:** Delves into the implementation details of the CHAMELEON Store and the logic behind the brokering, matchmaking, and smart filtering operations of the component.
- **Section 5:** Concludes the document and documents the component future steps and immediate actions.

3 CHAMELEON STORE KEY ASPECTS

In this chapter, the CHAMELEON Store is being contextualised in terms of the selected technologies, undertaken objectives, and relations with the rest of the CHAMELEON Ecosystem.

3.1 INTRODUCTION

The CHAMELEON Store introduces a user-centric approach to accessing a wide array of supported functionalities, emphasising an intuitive and user-friendly interface. The CHAMELEON Store's primary objective is to provide an effortless and seamless experience for end users, allowing them to access the full potential of CHAMELEON's outcomes.

One of the key features of the CHAMELEON Store is its ability to recommend specific CHAMELEON bundles to end users. These bundles are curated collections of functionalities tailored to meet individual user needs. Not every user will require the same set of functions, and as a result the concept of matchmaking becomes effective. By recommending specific bundles, it is aimed at streamlining the user experience and simplifying the decision-making process. This approach helps users discover the most relevant and valuable functionalities.

Furthermore, the CHAMELEON Store recognizes the importance of providing "bundle"-specific information. Each bundle is unique, with its own set of features, capabilities, and applications. To facilitate user navigation and empower them to make informed choices, it's essential to present detailed information specific to each bundle. This approach not only simplifies the decision-making process but also enhances user satisfaction by ensuring that they have access to comprehensive information to guide their selections.

In summary, the CHAMELEON Store redefines the user experience by offering a user-friendly interface, personalised bundle recommendations, and bundle-specific information. By focusing on these aspects, the users can be empowered to efficiently explore and utilise the functionalities of CHAMELEON.

3.2 OBJECTIVES

The CHAMELEON Store is driven by a set of clear and distinct objectives, each contributing to its overall mission of enhancing user experience and maximising the utilisation of the capabilities of CHAMELEON. These objectives compose the core principles of the CHAMELEON Store design and development.

3.2.1 ACCESSIBILITY AND USER-CENTRICITY

A crucial objective of the CHAMELEON Store is to be easily accessible and user-centric with the aim to create an interface that is intuitive, user-friendly, and readily accessible to users of all backgrounds and experience levels. By doing so, the CHAMELEON Store aims to enable technical and non-technical users to explore and utilise the functionalities offered by CHAMELEON.

3.2.2 PERSONALISED BUNDLE RECOMMENDATIONS

The CHAMELEON Store aims to provide users with personalised bundle recommendations. Through user preferences, the Store is able to recommend bundles that align with individual user needs and goals. These tailored recommendations facilitate a more efficient and user-driven approach to functionality selection.

3.2.3 FUNCTIONALITY NAVIGATION

To streamline the user's experience, the CHAMELEON Store aims to make the process of discovering and exploring functionalities as smooth as possible. By presenting clear and concise information about each function and its specific applications, it intends to equip users with the knowledge they need to make informed decisions and navigate the system with ease.

3.2.4 FLEXIBILITY AND ADAPTABILITY

When designing the CHAMELEON Store, it was taken into consideration that user requirements can vary widely depending on the background of the end user. For example, a forest owner requesting a bundle for detection of debris in rivers would have completely different needs from a livestock owner seeking a bundle to detect animals that have deviated from the herd. Thus, the objective is to offer a range of bundles and functionalities that cater to different needs, this way creating a flexible system that adapts to the diverse demands of the end users, ensuring that CHAMELEON Store remains a versatile and responsive tool.

The objectives of the CHAMELEON Store revolve around improving accessibility, personalization, user empowerment, and flexibility. The CHAMELEON Store by fulfilling those objectives will meet the diverse needs and simplify the utilisation of the functionalities of CHAMELEON for the end users.

3.3 TECHNOLOGIES

In the process of selecting the technology for building the CHAMELEON Store, various technologies and frameworks were considered and researched. This section will go over these technologies and frameworks and the reasoning behind the selected one.

3.3.1 ANGULAR

Angular [1] is a comprehensive framework created by Google for building web applications. It offers a lot of built-in features and a structured approach to development, making it a powerful choice for complex projects. Angular, while a robust framework, was not chosen for the CHAMELEON Store because of its steep learning curve. The complexity of Angular could potentially slow down development and make it more challenging for new developers to join the project.

3.3.2 VUE

Vue.js [2] is a user-friendly framework that focuses on simplicity and adaptability. It's designed to be easy to learn and lets developers gradually add its features, which can be helpful for

projects of varying complexity. The simplicity and adaptability of Vue.js made it a strong candidate. However, Vue.js was not selected because it lacks the backing of a major corporation (like Meta for ReactJS, or Google for Angular). This raised concerns about its long-term sustainability and support for a complex and evolving project like CHAMELEON.

3.3.3 EMBER

Ember.js [3] enforces a strict way of doing things, which can be beneficial for some projects. However, more flexibility for the CHAMELEON Store was needed to tailor it to our specific requirements. Ember.js offers a highly opinionated framework structure, which enforces strict conventions and a particular development style. In the case of the CHAMELEON Store, the need was for greater flexibility in defining and structuring components and user interfaces.

3.3.4 SVELTE

Svelte [4] is known for its efficiency and small bundle sizes. However, it was not chosen for the CHAMELEON Store because it is relatively new and still evolving. This lack of maturity and a smaller community raised concerns about the availability of resources, libraries, and long-term stability.

3.3.5 REACT

React [5] was the ideal choice for the CHAMELEON Store due to its user-friendliness and flexibility, allowing a tailored user experience. Its extensive and active developer community provided a wealth of resources and solutions. Compatibility with the existing Drone Innovation Platform (DIP) code base, industry-standard status, and a proven track record in handling complex projects further solidified React as the framework of choice, ensuring a streamlined development process and long-term sustainability.

3.4 ROLE (RELATION WITH OTHER CHAMELEON COMPONENTS)

The CHAMELEON Store, as an integral part of the Drone Innovation Platform (DIP), plays a pivotal role in the broader CHAMELEON ecosystem, where its interactions with other components are essential for delivering a seamless and efficient experience. In Figure 1, the CHAMELEON architecture is presented, showcasing the relationships between the CHAMELEON Store, DIP, and Plug-n-Play Platform.

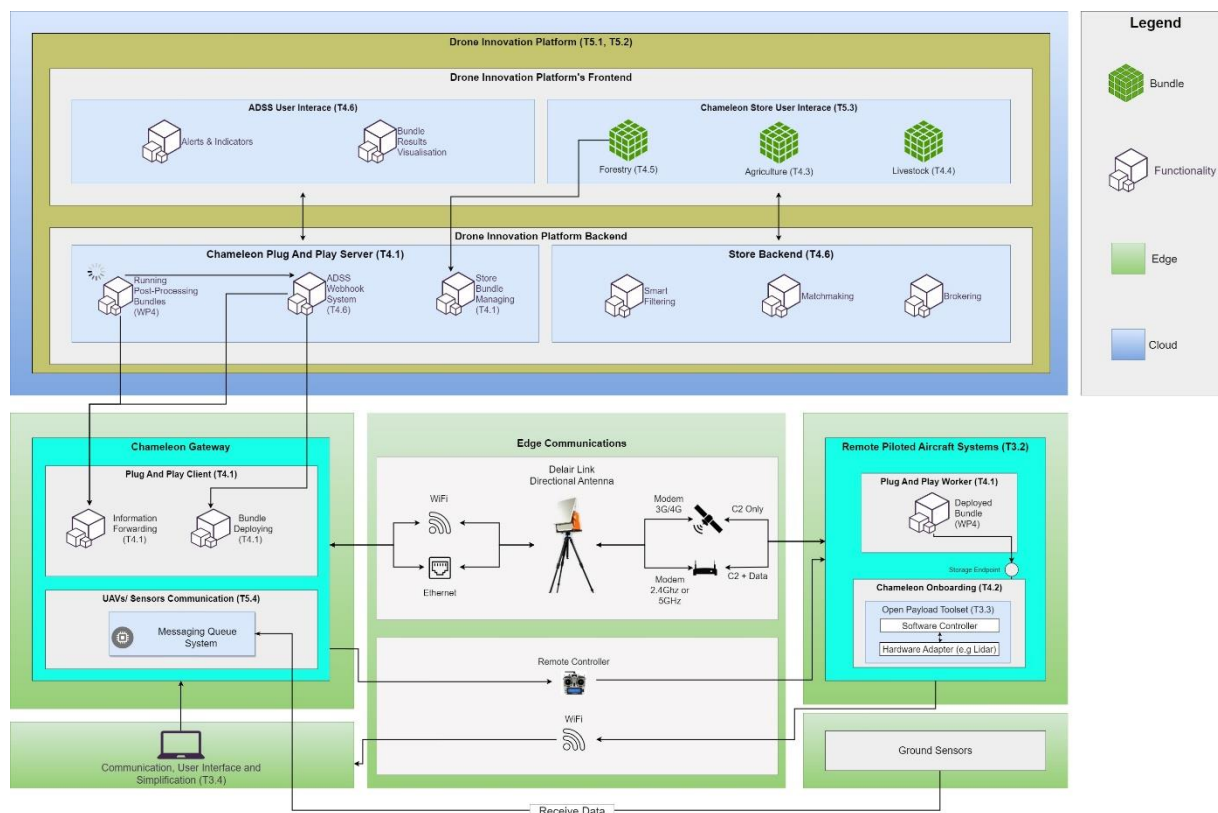


Figure 1: CHAMELEON Architecture Diagram

3.4.1 DRONE INNOVATION PLATFORM

By being an inherent component of the DIP, the CHAMELEON Store employs an integrated relationship with the platform. This synergy allows the CHAMELEON Store to access and harness the stored data within the DIP. Through the available data, the CHAMELEON Store tailors the user experience to individual needs and preferences. This means users can make more informed decisions and optimise their use of the CHAMELEON functionalities.

3.4.2 PLUG-N-PLAY PLATFORM

The CHAMELEON Store's reach extends beyond the DIP through communication with the Plug and Play platform. The Plug and Play platform is responsible for deploying selected bundles to Unmanned Aerial Vehicles (UAVs)¹. By interfacing with the Plug and Play platform, the CHAMELEON Store takes on the role of an orchestrator. It instructs the Plug and Play platform to deploy specific bundles, initiating the process seamlessly.

¹ https://en.wikipedia.org/wiki/Unmanned_aerial_vehicle

4 INITIAL VERSION OF THE CHAMELEON STORE

In this chapter, the initial version of the design and development of the CHAMELEON Store is documented. Specifically, the Application Logic applied to aid the end users make informed decisions as well as the backend operations that drive the rest of the CHAMELEON ecosystem are analysed to provide a comprehensive view of the reasoning behind the development and appliance of the described operations.

4.1 CHAMELEON STORE’S INTERNAL ARCHITECTURE

The internal architecture of the CHAMELEON Store is designed to align with its roles and objectives within the CHAMELEON project. A top-level view of the designed architecture is presented in .

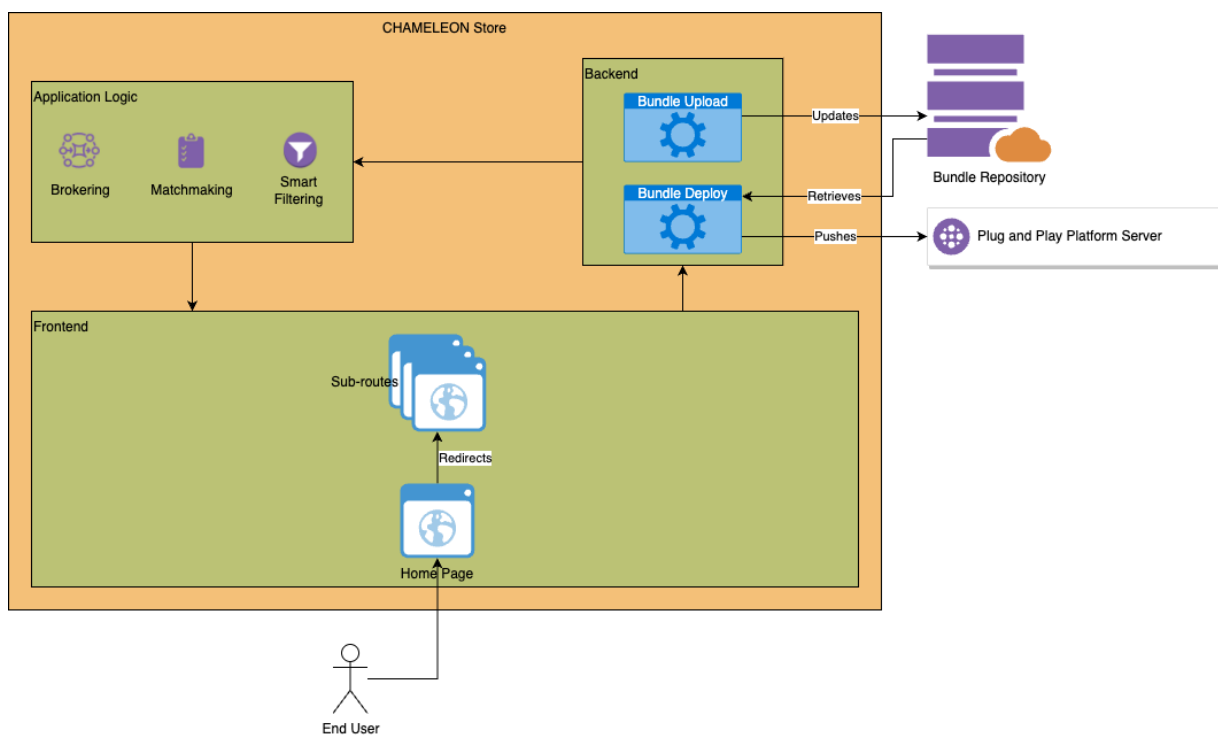


Figure 2: CHAMELEON Store Architectural Diagram

The main interaction point for the end user with the CHAMELEON Store is its frontend component. The Store Frontend's primary objective is to provide users with a seamless and intuitive navigation experience. It guides users to the corresponding sections of the store, ensuring they reach their desired pages effortlessly. Furthermore, apart from browsing sequences, the Frontend of the Store aims to simplify the process of configuring deployments with the aim to offer a user-friendly experience even when undertaking complex configurations.

The Application Logic component applies operations to the available bundles that shape the way they are presented to users, namely, the matchmaking process, brokering functionalities,

and smart filtering. These elements work together to tailor the selection of bundles to individual users' needs. Matchmaking ensures that users discover bundles that align with their mission objectives, while brokering presents bundle-specific information to the end user to aid them in more informed decisions. Smart filtering refines the presented bundles, ensuring that users are offered the most relevant and valuable options, enhancing their bundle browsing process.

The Store Backend houses essential functionalities, including "Bundle Upload" and "Bundle Deploy." The "Bundle Upload" feature allows users to contribute their own bundles, aiding collaboration and expansion of the Bundles offered by CHAMELEON. "Bundle Deploy" on the other side, orchestrates the deployment of selected bundles to the Plug and Play platform Server. This functionality enables users to execute deployments with the required resources. It forms the bridge between user selections and the real-world application of these bundles.

4.2 APPLICATION LOGIC

The Application Logic is composed of operations being conducted in the backend of the CHAMELEON Store that regard either the CHAMELEON Bundles or the roles and needs of the End Users. The reasoning behind the separation of the Application Logic from the Store Backend comes from differentiating the operations that drive the rest of the CHAMELEON Ecosystem (Backend) and the operations applied to aid the end users (Application Logic).

4.2.1 BROKERING

The CHAMELEON Store by having available the statistics regarding the different CHAMELEON Bundles eligible for deployment, can present them to the end users in an attempt to aid them in their decision-making process. Specific and accurate information about each bundle regarding the number of deployments in which the specific bundle has been involved or the overall value provided through past deployments can aid the end user's comprehension of the bundle's effectiveness and thus distinguish the more fitting CHAMELEON Bundle to cover their needs. Through the Brokering operations of CHAMELEON, the more effective and successful solutions of CHAMELEON are promoted to improve the experience provided by the CHAMELEON ecosystem.

4.2.2 MATCHMAKING

While end users can vary from livestock and forest owners to agricultural stakeholders, in each case different needs emerge, and thus, the CHAMELEON Store by being informed of the nature of the end user, can recommend and showcase the corresponding CHAMELEON Bundles according to the fields of expertise of the end user. Similarly, an end user not interested in deploying a bundle, but instead uploading one (Bundle Developer) shall be able to do so without having to go through the different bundle representation pages. Matchmaking operations undertake the objective of presenting relevant information to each end user according to their background, needs, and objectives.

4.2.3 SMART FILTERING

In an attempt to improve the scalability of the CHAMELEON Store and aid in the user navigation and browsing through the available bundles offered by the CHAMELEON, Smart filtering operations are going to be supported. These operations correspond to the different key filters to be applied on the overall sum of Bundles with the goal of filtering out Bundles of no interest to the end user.

4.3 STORE VIEW

The Store View chapter provides a comprehensive presentation and description of the initial pages developed for the CHAMELEON Store. These pages represent the foundational interface that end users interact with when exploring and utilising the store's functionalities. This overview will document the purpose and objectives of each of the core views that constitute the CHAMELEON Store so far. While the integration with the DIP and the rest of the CHAMELEON ecosystem progresses, visual changes are foreseen, as a result, this section focuses on documenting the development approach and presenting the reasoning for the creation of each one of the views.

4.3.1 STORE LAYOUT

The overall structure of the initial version of the CHAMELEON Store consists of three main sections, as depicted in Figure 3. The first is the “Header” section, which contains the logo of the CHAMELEON Store and serves as a quick navigation to the Dashboard of the Store; a search bar that aids the user in quickly finding what interests them; and finally, an icon that corresponds to users that have signed into the CHAMELEON Store. The second section is the “Sidebar” section facilitated with a variety of key actions attempting to cover the different purposes of the end users. Both the described sections so far, remain the same indifferent to what page the visitor is currently on as an attempt to provide quick navigation and actions to the end user. The third section is the “Content” of the CHAMELEON Store and exists right to the “Sidebar” and under the “Header” sections. This section of the Store is dynamically changed according to the actions of the end user.

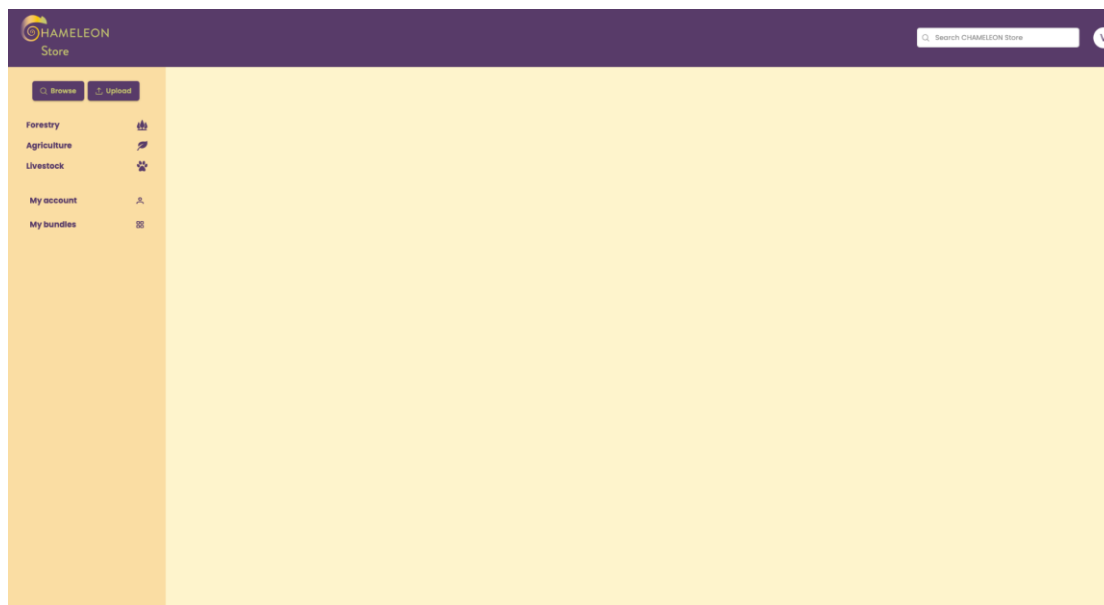


Figure 3: CHAMELEON Store Layout

4.3.2 STORE DASHBOARD

The Store Dashboard view presented in Figure 4, is the first screen an end user comes across when accessing the CHAMELEON Store. As described in the previous section the nature and background of the end user vary and thus in each case, the end user requires different functionalities of the CHAMELEON Store. The Dashboard should be able to prompt the visitor with a variety of options to cover the needs of different individuals. Thus, the Dashboard is designed to first recommend specific bundles according to the background of the end user. Then, a navigation panel is offered to the end user to prompt them to discover bundles according to their scope (Agriculture, Forestry, Livestock). In the last section of the dashboard, and according to statistics regarding the bundles themselves, the most deployed and latest bundles are presented to the visitor to the Store.

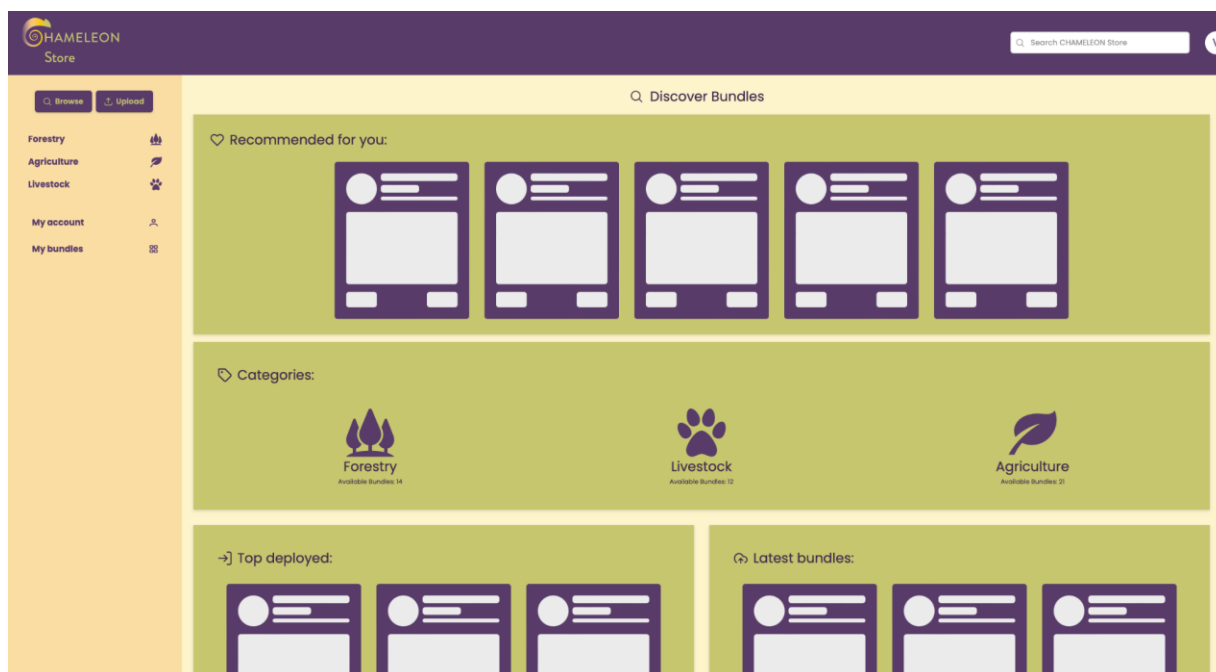


Figure 4: CHAMELEON Store Dashboard

4.3.3 BUNDLE UPLOAD VIEW

Through the “Bundle Upload” view, depicted in Figure 5, a Bundle developer can configure the upload of their developed bundle to become available in the CHAMELEON Store. The sequence is performed through the corresponding modal offered by the CHAMELEON Store where specific information is requested from the end user. A descriptive title to aid in indexing operations is requested as well as a short description of the bundle. Then, the developer specifies the Category that the Bundle falls into (e.g., Forestry, Livestock or Agriculture) so the Bundle can be further presented and recommended to the suitable end users. Before uploading their bundle, the requirements to run the bundle shall be set up. These requirements define the software and hardware necessities that the Bundles need in order to function properly and produce the desired outcomes. (e.g., Lidar, RGB Camera, Thermal Sensor etc.)

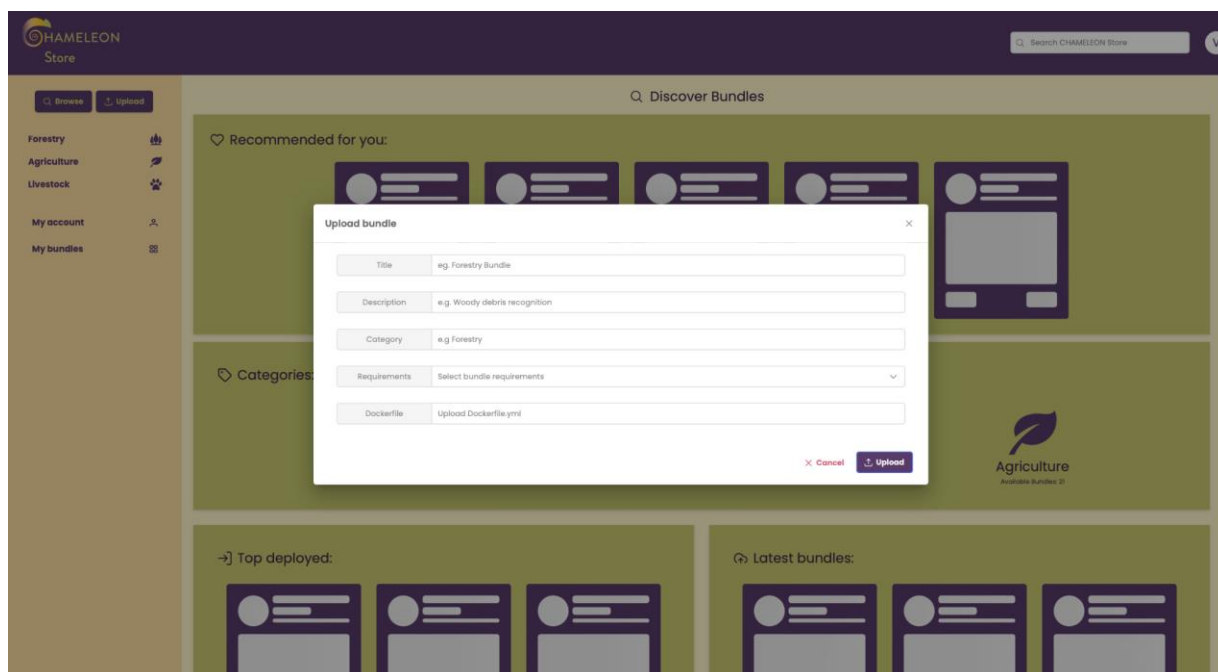


Figure 5: CHAMELEON Store Bundle Upload

4.3.4 BUNDLE REPRESENTATION

To support a large number of bundles, in each Bundle Representation category (Forestry, Livestock, Agriculture) specific filtering operations are designed to take place. By representing the bundles by the category that they belong to, they can be further filtered according to the specific topic that they aim to cover. For example, in Figure 6, the Forestry Bundle representation contains filters per topic such as Rivers, Trees, or Debris to aid the end user in filtering out the Bundles that do not interest him and navigating through the Bundles that regard their specific needs. Furthermore, corresponding filters according to the number of times the Bundle has been successfully deployed or the last updated status of the bundles are contained to filter out the least utilised or inactive bundles. Finally, filters regarding the desired functionality of the Bundles either in terms of Post Processing capabilities or Near Real Time processing are included to help the end user to better describe their desired solution.

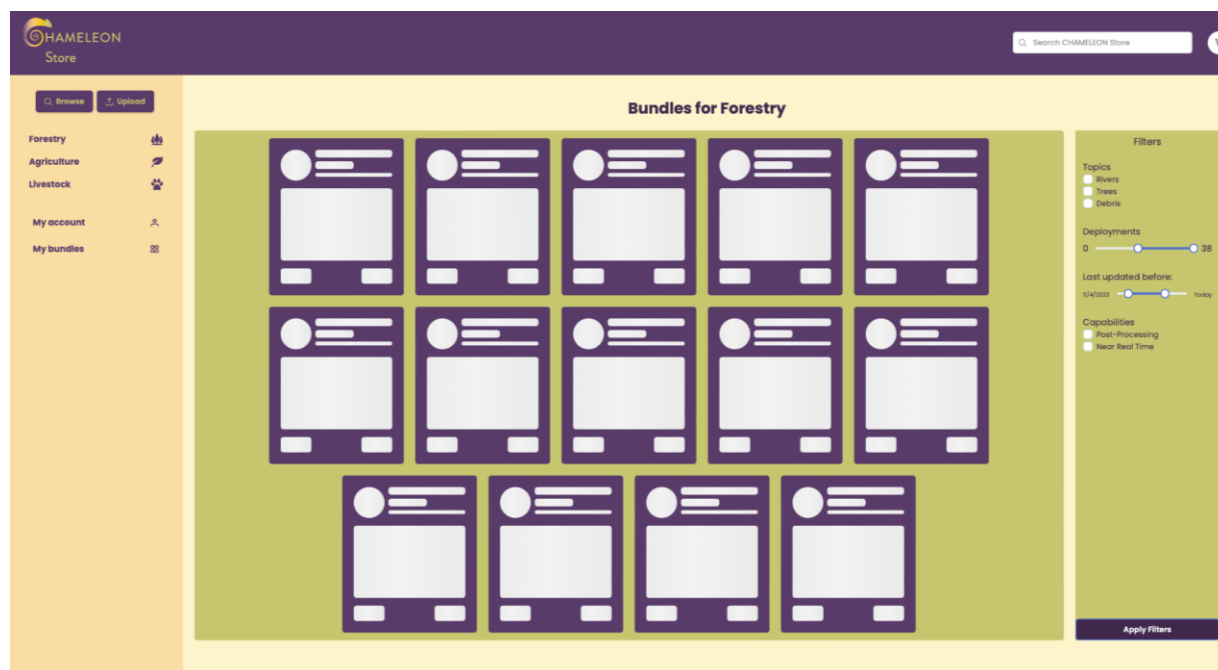


Figure 6: CHAMELEON Store Bundle Representation

4.4 CHAMELEON STORE'S BACKEND OPERATIONS

This chapter documents the core operational sequences that define the functionality and user interactions within the CHAMELEON Store. These sequences serve as the backbone of the store's operations, influencing the way users navigate, select bundles, and deploy resources.

4.4.1 UPLOAD BUNDLE

The "Upload Bundle" sequence of the CHAMELEON Store corresponds to the operation of uploading a new bundle into the CHAMELEON ecosystem, a sequence diagram of this operation is presented in Figure 7. A bundle developer, after being authenticated and authorised through the DIP, will have the corresponding access to enable them to access the CHAMELEON Store. After the authentication and authorization processes have been completed, the dashboard of the Store will be served to the specific end user. Through this dashboard, the end user can request access to the corresponding "Bundle Upload". The CHAMELEON Store provides the screen responsible for uploading the bundle and the end user configures the necessary parameters. Once the parameters have been configured, the bundle is dispatched to the Store to be again dispatched to the repository of bundles of CHAMELEON. The successful status of the whole operation is communicated, through the Store, back to the end user.

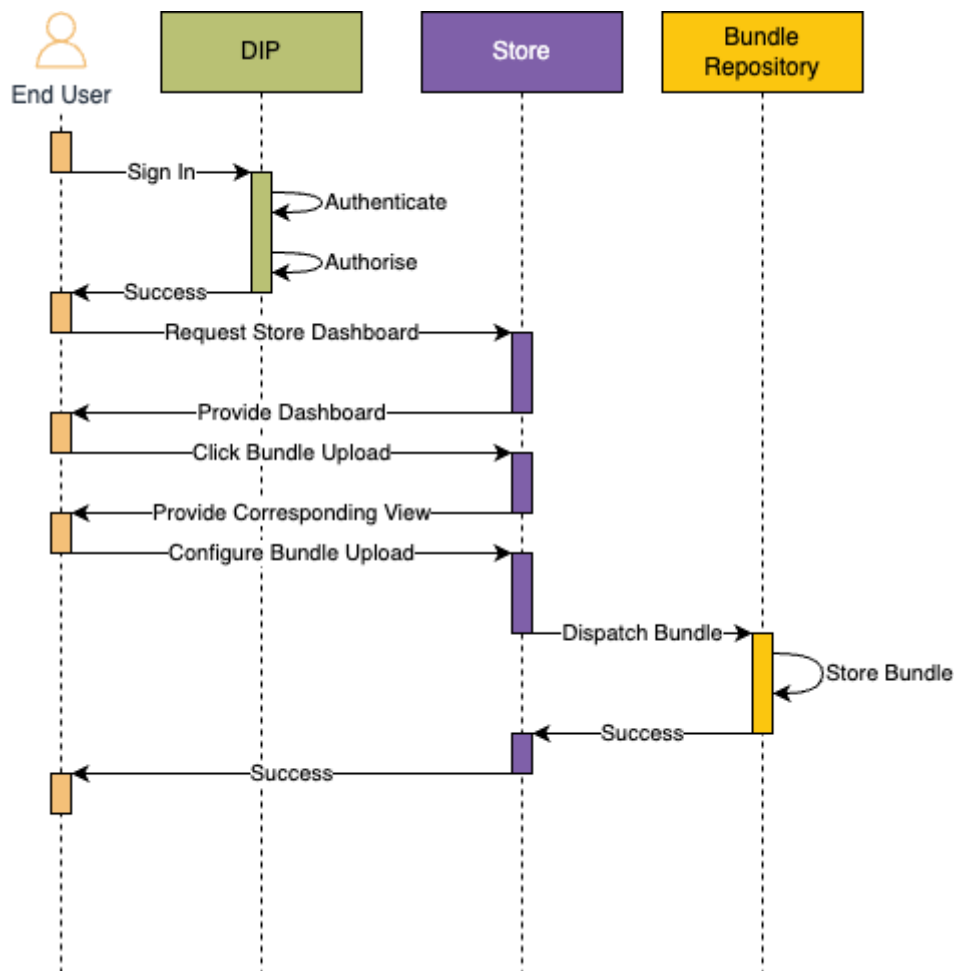


Figure 7: Bundle Upload Sequence Diagram

Through the successful conduction of the whole “Bundle Upload” sequence, the end-user has made their bundle available in the CHAMELEON Store both to be showcased and deployed improving this way the effort of CHAMELEON to fulfil agricultural, livestock, and forestry needs.

4.4.2 DEPLOY BUNDLE

Through the “Deploy Bundle” operation of the CHAMELEON Store, the selected CHAMELEON Bundle is deployed to run on a CHAMELEON UAV. Similar to the case of “Bundle Upload”, the End User initiates this sequence by signing in through the DIP and gaining the corresponding authentication and authorisation rights. Once this sequence has been successfully completed, the Store Dashboard is requested by the end user and served by the CHAMELEON Store. Through this dashboard, the end user can require access to the Bundle Deploy View. The CHAMELEON Store, after retrieving the available bundles from the bundle repository, provides the requested view and the end user is now able to configure the desired bundle deployment. Once the deployment has been configured, it is dispatched to the CHAMELEON Store to be further dispatched to the Plug and Play Platform in an attempt to proceed with the instructed deployment. A diagram depicting the overall sequence is presented in Figure 8.

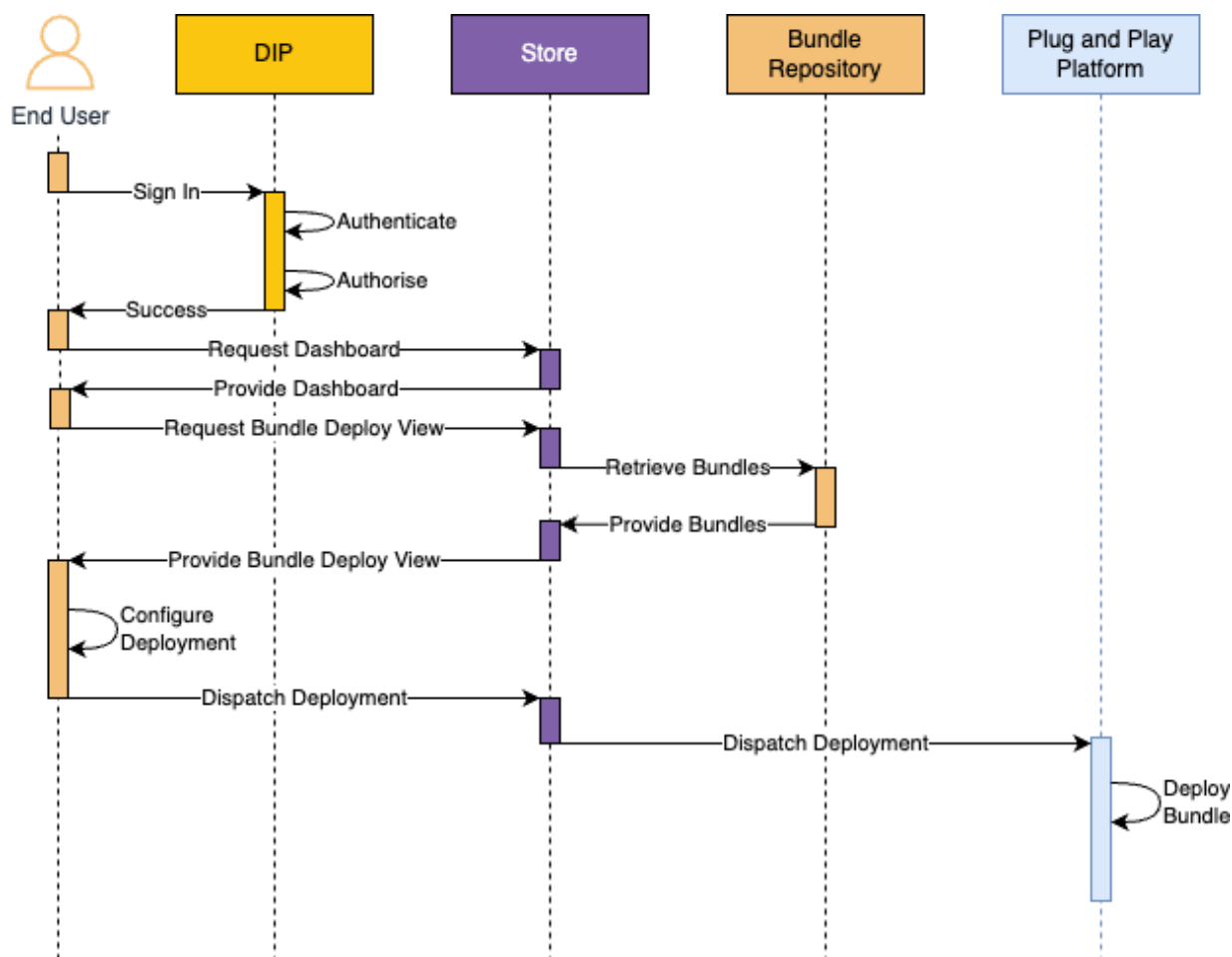


Figure 8: Bundle Deploy Sequence Diagram

By successfully fulfilling the deployment of a selected bundle the CHAMELEON Store acts as the necessary middleware between the end user and the capabilities of the CHAMELEON, simplifying the complex operations of the ecosystem and enabling the end users to benefit from the services offered by the project.

5 CONCLUSION AND NEXT STEPS

This chapter concludes the document by summarising the details provided in this document and describes the future actions planned for the CHAMELEON Store. The overall approach, design and implementation initiative of the CHAMELEON Store aims to support a simple and user-friendly user interface for the end users, enabling them to benefit from the CHAMELEON offerings. By hiding the complexity of the CHAMELEON sequences and simplifying the configuration of the deployments, technical (bundle developers) and non-technical (livestock, forest owners etc.) end users can access, navigate, and use the CHAMELEON Store to instruct bundle uploads and/or deployments according to their needs. In the chapter that follows, the immediate and future next steps of the CHAMELEON Store are documented.

5.1 NEXT STEPS

The immediate next step of the CHAMELEON Store is to be integrated and aligned with the Drone Innovation Platform. This integration regards both the alignment of the look and feel and the development of the CHAMELEON Store with the DIP. As a result, while the overall User Interface of the CHAMELEON Store is expected to change, the offered capabilities will be the same as the ones described in this document and expand from this point onwards. In the development aspect of this integration, the two components will be developed in parallel instead of developing each separately and merging them in the future.

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