V3 Zaius Concept decision log

Zaius Concept proposal [v3]

Since the Chronologue tool and world is fake, you need to come up with a possible documentation scenario that can be used to create an example of your template in action. You'll use this decision log to write a proposal for your scenario and then send it to the Chronologue canon editorial team to get feedback on your proposal. They will make sure the documentation scenario makes sense for the Chronologue world and that it doesn't impact existing Chronologue projects. After getting their approval, you can move onto the next stage.

In the following sections, spend some time thinking about a scenario you want to propose.

Which template are we documenting and which template pack is it part of?

Concept - Core documentation template pack

Describe the considerations or other requirements that you need to consider in order to create an effective example of the template's content type

Purpose or goal	*Background:*
	
	● Zaius's Chronologue Relay enables users to experience immersive 3D VR renderings of Chronologue data.
	● 3D VR experiences require large amounts of data and processing bandwidth to function.
	● Chronologue API data rate limitations mean that Chronologue Relay users cannot create VR renderings from direct streams of Chronologue API data.
	● Rather, Chronologue Relay users rely on the following data sources to support resource-intensive VR renderings:
	  ○ *local:* an internal Relay database containing data banked from OCTAVIA's Chronologue API
	  ○ *remote:* community Chronologue data stored in peer Relay databases
	
	(*Reference:* Chronologue canon > "What are Zauis Inc.'s products, and how do they work?")
	
	Documentation goal:

	Given the above-noted background, Chronologue Relay users will benefit from conceptualizing the pertinent **P2P data-sharing protocols** to optimize use of their local consoles. Namely, it will help them understand why the Relay uses one P2P protocol in one type of situation and another protocol in another situation.
Audience	Chronologue Relay users, including hobbyists, museum exhibit coordinators, STEM researchers, university educators. Example user goals: ● Preview astronomical events from across time to download locally and then experience in immersive VR. ● Gather Chronologue events in their local Relay, to curate and present 3D visualizations illustrating key space and time concepts for a student or public audience. ● Create immersive/interactive data visualizations on demand (scatter plots, graphs, charts, etc.) to present novel research on astrophysics. Example technical familiarity: ● Comfortable using digital technology, but not so advanced that they can customize their interaction with the Chronologue API or develop their own software. Example user pain points: ● OCTAVIA's data rate limitations restrict what they can view in VR from a direct Chronologue API data stream. ● Their limited understanding of Chronologue data flows leads to a misuse of data resources (e.g., spending time and wasting internal database memory downloading a Chronologue event that they later realize was not interesting to them).
Must-have requirements	*Required elements identified in the Concept template:* ● **Summary paragraph and definition.** Define the concept, explain its relevance, and preview the document's content. ● **Use cases.** Provide use cases and explain how a reader can benefit from a concept.
Nice-to-have requirements	*Optional elements identified in the Concept template:* ● **Visual aids.** Visually illustrate explanations.

	● **Background.** Provide a reader with a context, prehistory, or background information. ● **Comparison.** Compare options or alternatives. ● **Related resources.** Provide links to documentation related to the concept that the user can read for more information.

Given these requirements, which Chronologue publication will your documentation scenario be for?

Options are:

- **The Chronologue API documentation** - The organization that runs the Chronologue telescope is OCTAVIA. It is inspired by NASA in our present day. OCTAVIA is the multi-national government-sponsored entity that developed, built, and launched the Chronologue telescope. OCTAVIA maintains the Chronologue telescope and they control access to it, but they expose all the data it collects to a publicly accessible API. This is called the Chronologue API.
- **The KronoPy open source documentation** - KronoPy is an open source community of Python developers from the scientific community who build libraries to extract information from the Chronologue API. Off stage, it is inspired by AstroPy.
- **The Chronologue Relay product documentation** - Zauis, Inc. is a company that creates commercial products based on the Chronologue API. Right now, their main product is the Chronologue Relay, which is a home console that can connect the Chronologue API to your home VR headset and view astronomical events in time. Zauis's current market includes hobbyists. Think of it as being similar to 3D printers today. 3D printers are somewhat affordable, but only enthusiasts currently buy them because of the high price point. Zauis also markets to STEM programs, museums, and educational institutions who can afford to buy the Chronologue Relay.
- **You can propose a different publication if these three don't make sense, but you might want to get prior approval if that's the case.**

{Explain which publication you are creating this example for and why.}

Publication: Chronologue Relay product documentation

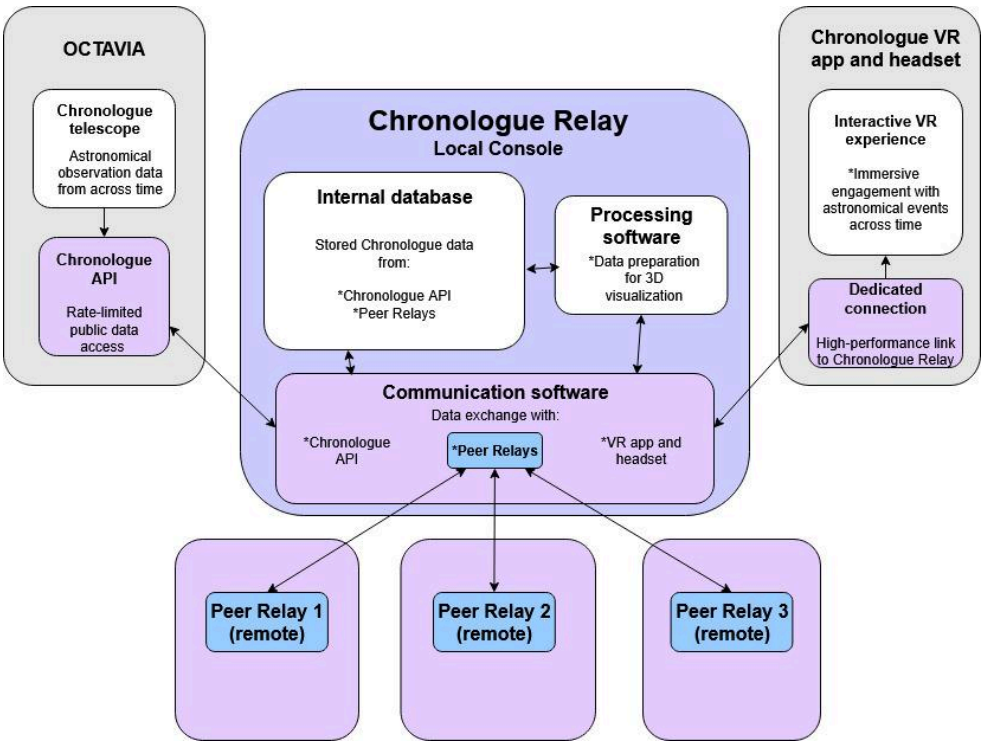
Rationale: Chronologue Relay users will benefit from understanding the different modes of peer-to-peer data sharing within the context of the Relay's distributed community of databases. Why? They will rely on the P2P protocols to gather Chronologue events into their local Relay instance to then experience in VR.

What is your documentation plan?

{Describe in detail specifically what you plan to document in this scenario. You could possibly explain the goal of the document or the context for what you plan to document. Explain the content of the documentation from end-to-end. This is the main content of the proposal, so try to make this as thorough as possible to resolve any potential questions.}

I plan to include the following in my concept document:

- **Summary paragraph and definition.** Introduce and define peer-to-peer data sharing protocols as applied to the Chronologue Relay. Use metaphors/analogies to make the concept relatable (activating and capitalizing on readers' existing cognitive schemata).
- **Visual aid.** Diagram the relationships between components of the Chronologue data environment relevant for Chronologue Relay P2P sharing (e.g., Chronologue API, internal Chronologue Relay database, peer Chronologue Relays, VR app). Namely, include some variation on the following data environment graphic to help orient Chronologue Relay users:



- **Background.** Describe the Chronologue data environment (including rate limitations on Chronologue API data streams, resource-intensive nature of VR rendering), and why VR experiences in that context gives rise to a need for peer-to-peer data sharing.

(Setting the stage with this background amounts to an application of the inverted pyramid technique recommended in the Concept template guide. Namely, the specific Use case narratives that follow will flow from the high-level context spelled out in this Background section.)

- **Use cases.** Proposed P2P protocols include:
    1. **Streaming protocol:** Remote access to *small Chronologue data objects/media files* to quickly:
        - View immersive/interactive data visualizations on demand (scatter plots, graphs, charts, etc.)
        - Preview immersive 3D observation imagery in a partial or low-resolution form; foreshadow a full VR experience for which a user is considering downloading the complete data to a local Relay
    2. **File-sharing protocol:** Torrent-based transmission of *large Chronologue data objects/media files* to enable stable, local rendering of full-resolution 3D experiences in VR.
- **Comparison.** In a comparison table, concisely compare and contrast the streaming and file-sharing P2P protocols used in the Chronologue Relay community.

What impacts (if any) will this documentation scenario have on the Chronologue canon?

{Describe what needs to possibly change in the Chronologue canon in order to accommodate your documentation scenario.}

The on-stage details in my proposed concept document:

- are consistent with the existing Chronologue canon
- would expand on the canon by specifying Chronologue Relay P2P protocols

In the event of approval of this proposal, Chronologuers would need to account for the P2P protocols as appropriate in future Zaius product documentation.

V2 Zaius Concept decision log

Zaius Concept decision log [v2]

Since the Chronologue tool and world is fake, you need to come up with a possible documentation scenario that can be used to create an example of your template in action. You'll use this decision log to write a proposal for your scenario and then send it to the Chronologue canon editorial team to get feedback on your proposal. They will make sure the documentation scenario makes sense for the Chronologue world and that it doesn't impact existing Chronologue projects. After getting their approval, you can move onto the next stage.

In the following sections, spend some time thinking about a scenario you want to propose.

Which template are we documenting and which template pack is it part of?

Concept - Core documentation template pack

Describe the considerations or other requirements that you need to consider in order to create an effective example of the template's content type

Purpose or goal	*Background:*
	
	● Zaius's Chronologue Relay enables users to experience immersive 3D VR renderings of Chronologue data.
	● 3D VR experiences require large amounts of data and processing bandwidth to function.
	● Chronologue API data rate limitations mean that Chronologue Relay users cannot create VR renderings from direct streams of Chronologue API data.
	● Rather, Chronologue Relay users rely on the following data sources to support resource-intensive VR renderings:
	  ○ *local:* an internal Relay database containing data banked from OCTAVIA's Chronologue API
	  ○ *remote:* community Chronologue data stored in peer Relay databases
	
	(*Reference:* Chronologue canon > "What are Zauis Inc.'s products, and how do they work?")
	
	Documentation goal:

	Given the above-noted background, Chronologue Relay users need to conceptualize the pertinent **P2P data-sharing protocols** to be able to effectively use their consoles in generating VR experiences.
Audience	Chronologue Relay users (i.e., Chronologue telescope enthusiasts)
Must-have requirements	*Required elements identified in the Concept template:* ● **Summary paragraph and definition.** Define the concept, explain its relevance, and preview the document's content. ● **Use cases.** Provide use cases and explain how a reader can benefit from a concept.
Nice-to-have requirements	*Optional elements identified in the Concept template:* ● **Visual aids.** Visually illustrate explanations. ● **Background.** Provide a reader with a context, prehistory, or background information. ● **Comparison.** Compare options or alternatives. ● **Related resources.** Provide links to documentation related to the concept that the user can read for more information.

Given these requirements, which Chronologue publication will your documentation scenario be for?

Options are:

- **The Chronologue API documentation** - The organization that runs the Chronologue telescope is OCTAVIA. It is inspired by NASA in our present day. OCTAVIA is the multi-national government-sponsored entity that developed, built, and launched the Chronologue telescope. OCTAVIA maintains the Chronologue telescope and they control access to it, but they expose all the data it collects to a publicly accessible API. This is called the Chronologue API.
- **The KronoPy open source documentation** - KronoPy is an open source community of Python developers from the scientific community who build libraries to extract information from the Chronologue API. Off stage, it is inspired by AstroPy.
- **The Chronologue Relay product documentation** - Zauis, Inc. is a company that creates commercial products based on the Chronologue API. Right now, their main product is the Chronologue Relay, which is a home console that can connect the Chronologue API to your home VR headset and view astronomical events in time. Zauis's current market includes hobbyists. Think of it as being similar to 3D printers

today. 3D printers are somewhat affordable, but only enthusiasts currently buy them because of the high price point. Zauis also markets to STEM programs, museums, and educational institutions who can afford to buy the Chronologue Relay.
- **You can propose a different publication if these three don't make sense, but you might want to get prior approval if that's the case.**

{Explain which publication you are creating this example for and why.}

Publication: Chronologue Relay product documentation

Rationale: Chronologue Relay users need to understand peer-to-peer data sharing within the context of the Relay's distributed community of databases in order to use their console effectively.

What is your documentation plan?

{Describe in detail specifically what you plan to document in this scenario. You could possibly explain the goal of the document or the context for what you plan to document. Explain the content of the documentation from end-to-end. This is the main content of the proposal, so try to make this as thorough as possible to resolve any potential questions.}

I plan to include the following in my concept document:

- **Introductory paragraph.** Introduce and define peer-to-peer data sharing protocols as applied to the Chronologue Relay.
- **Visual aid.** Diagram the relationships between components of the Chronologue data environment relevant for Chronologue Relay P2P sharing (e.g., Chronologue API, internal Chronologue Relay database, peer Chronologue Relays, VR app).
- **Background.** Describe the Chronologue data environment (including rate limitations on Chronologue API data streams, resource-intensive nature of VR rendering), and why VR experiences in that context gives rise to a need for peer-to-peer data sharing.
- **Use cases.** Use the Storybrand technique to evoke the following P2P protocols:
    3. **Streaming protocol:** Remote access to *small Chronologue data objects/media files* to quickly:
        - View immersive/interactive data visualizations on demand (scatter plots, graphs, charts, etc.)
        - Preview immersive 3D observation imagery in a partial or low-resolution form; foreshadow a full VR experience for which a user is considering downloading the complete data to a local Relay
    4. **File-sharing protocol:** Torrent-based transmission of *large Chronologue data objects/media files* to enable stable, local rendering of full-resolution 3D experiences in VR.

- **Comparison.** In a comparison table, concisely compare and contrast the streaming and file-sharing P2P protocols used in the Chronologue Relay community.

What impacts (if any) will this documentation scenario have on the Chronologue canon?

{Describe what needs to possibly change in the Chronologue canon in order to accommodate your documentation scenario.}

The on-stage details in my proposed concept document:

- are consistent with the existing Chronologue canon
- would expand on the canon by specifying Chronologue Relay P2P protocols

In the event of approval of this proposal, Chronologuers would need to account for the P2P protocols as appropriate in future Zaius product documentation.

V1 Zaius Concept decision log

Zaius Concept decision log [v1]

Since the Chronologue tool and world is fake, you need to come up with a possible documentation scenario that can be used to create an example of your template in action. You'll use this decision log to write a proposal for your scenario and then send it to the Chronologue canon editorial team to get feedback on your proposal. They will make sure the documentation scenario makes sense for the Chronologue world and that it doesn't impact existing Chronologue projects. After getting their approval, you can move onto the next stage.

In the following sections, spend some time thinking about a scenario you want to propose.

Which template are we documenting and which template pack is it part of?

Concept - Core documentation template pack

Describe the considerations or other requirements that you need to consider in order to create an effective example of the template's content type

Purpose or goal	• Fulfill Zaius, Inc.'s need for a Concept document for its main product, the Chronologue Relay. • Impart foundational knowledge about the Chronologue Relay, a home console that: ○ engages with OCTAVIA's exposed Chronologue API to extract and store data from the Chronologue telescope ○ calls its stored Chronologue data and processes it for visual display in virtual reality (*Reference:* Chronologue canon > "What are Zauis Inc.'s products, and how do they work?")
Audience	1. Zaius, Inc. customers, including: • Chronologue hobbyists and enthusiasts (especially those with the means to purchase the Chronologue Relay at its high price point)

	● STEM programs, museums, educational institutions 2. KronoPy developers who create software to visually render Chronologue Relay data in the Chronologue VR App
Must-have requirements	● **Introductory paragraph.** Define the concept, explain its relevance, and preview the document's content. ● **Use cases.** Use narrative techniques to illustrate how the concept enables users to address their needs or goals.
Nice-to-have requirements	● **Visual aids.** Visualize how the concept is organized and/or fits into a broader system. ● **Background.** Explain the history and context driving the concept. ● **Comparison.** Itemize similarities and differences between the concept and an alternative to help users make a choice. ● **Related resources.** References to additional resources to help readers further explore the topic.

Given these requirements, which Chronologue publication will your documentation scenario be for?

Options are:

- **The Chronologue API documentation** - The organization that runs the Chronologue telescope is OCTAVIA. It is inspired by NASA in our present day. OCTAVIA is the multi-national government-sponsored entity that developed, built, and launched the Chronologue telescope. OCTAVIA maintains the Chronologue telescope and they control access to it, but they expose all the data it collects to a publicly accessible API. This is called the Chronologue API.
- **The KronoPy open source documentation** - KronoPy is an open source community of Python developers from the scientific community who build libraries to extract information from the Chronologue API. Off stage, it is inspired by AstroPy.
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- **You can propose a different publication if these three don't make sense, but you might want to get prior approval if that's the case.**

{Explain which publication you are creating this example for and why.}

My concept document will be for the **Chronologue Relay product documentation**. By providing foundational knowledge about the Chronologue Relay it will:

- Prime users to delve into more detailed operational instructions appearing in later Chronologue Relay documentation
- Empower (fictional) users of the Chronologue Relay to optimize their manipulation of Chronologue data in a virtual reality display

What is your documentation plan?

{Describe in detail specifically what you plan to document in this scenario. You could possibly explain the goal of the document or the context for what you plan to document. Explain the content of the documentation from end-to-end. This is the main content of the proposal, so try to make this as thorough as possible to resolve any potential questions.}

In my Chronologue Relay concept document I plan to:

1. **Define** the Chronologue Relay.

2. **Illuminate crucial background.** I anticipate briefly:

    - Summarizing origins
    - Situating Chronologue Relay technology in the larger context of astronomical observation and the (fictional) world inhabited by OCTAVIA, Zaius, and KronoPy

3. Evoke opportunities (scientific and otherwise) that Chronologue Relay technology creates for users by narrating **use cases**. Examples include:

    - Requesting and viewing recordings
    - Requesting and viewing modeled data
    - Navigating 3D space

4. Introduce specific Chronologue Relay **functionality and capabilities**, including:

    - Use of peer-to-peer protocols and calls to the Chronologue Relay console to obtain Chronologue data
    - Use of KronoPy software to process retrieved Chronologue data into visualizations of:
        - Recorded observations
        - Modeled data

5. Identify **related resources**, such as other existing Chronologue resources

What impacts (if any) will this documentation scenario have on the Chronologue canon?

{Describe what needs to possibly change in the Chronologue canon in order to accommodate your documentation scenario.}

When I spell out tangible scenarios for the use cases section of the concept document (e.g., requesting and viewing recordings, navigating 3D space, etc.), I plan to use details from the Zaius' API Specification KB draft for inspiration wherever possible.

However, I anticipate needing to develop fictional details that build on that existing Chronologue canon information at times. Why? The Concept template guide recommends using storytelling techniques to:

- Engage readers
- Help them grasp otherwise abstract ideas

Therefore, if I reference a use case like the following from the Zaius' API Specification KB draft:

> **View / search community events**
>
> As a member of a community, I want to view and search for events shared within my community so that I can explore relevant timelines, participate in shared experiences, and collaborate with others in my group.
>
> Acceptance criteria:
>
> 1. Users can navigate to a dedicated “Community Events” section from their dashboard.
>
> 2. The section displays events specific to the communities the user belongs to.
>
> 3. A search bar and filters (e.g., by type, data, tag, contributor) allow users to find specific events within their community.
>
> 4. Events are clearly labeled with their community name or tag.
>
> 5. Users can only view events from communities they’re part of.
>
> 6. Results include both upcoming and past events, depending on user settings or filters.

I will need to invent details describing what a user might see before their eyes in that scenario, making the experience palpable, immersive, and relatable.

If, though, over the course of my writing I come across any characteristics of the Chronologue world that suggest themselves to be incomplete or problematic in some way, I will draft a solution to propose to the Chronologue canon team via a decision log.