



The W3C Voice Interaction Community Group

January 26, 2022

W3C[®] The World Wide Web Consortium and Community Groups

- “The W3C mission is to lead the World Wide Web to its full potential by developing protocols and guidelines that ensure the long-term growth of the Web.”
- The W3C is responsible for web standards such as HTML, CSS and web accessibility.
- The W3C includes multiple types of groups, with different purposes.
- Community Groups enable anyone to socialize their ideas for the Web at the W3C for possible future standardization.
 - Open to all
 - Without Fee
 - Quick To Start
 - Public
 - Self-determined
 - Without Time Limit
 - IPR Balanced
 - Tuned For Transition To Standards-track
- Process <https://www.w3.org/community/about/process/#community-process>



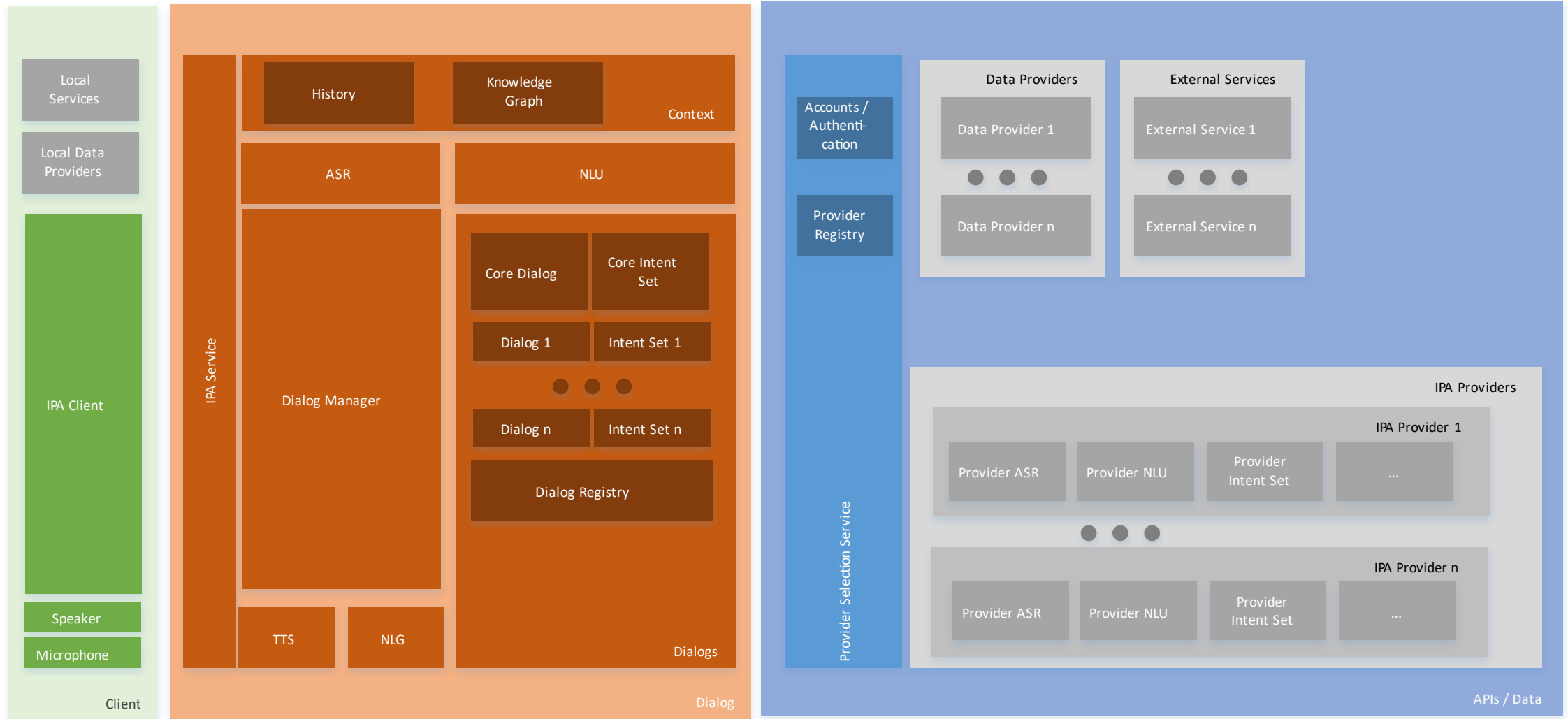
About the Voice Interaction Community Group

- Started in 2017, following on from the Voice Browser Working Group and the Multimodal Interaction Working Group
- 39 current members
- 4 Co-chairs
- Goals:
 - develop new use cases for voice interaction
 - develop requirements for applications such as virtual assistants
 - explore areas for possible standardization
 - possibly producing specifications if appropriate
- Possible topics:
 - **interoperability for conversational interfaces**
 - discovery of virtual assistants with specific expertise, for example a way to find a virtual assistant that can supply weather information
 - standard formats for statistical language models for speech recognizers
 - standard representations for references to common concepts such as time
 - work on dialogue management or 'workflow' languages

Current Specifications

- JSON Representation of Semantic Information;
A common format for natural language results
<https://w3c.github.io/voiceinteraction/voice%20interaction%20drafts/emmaJSON.htm>
- Architecture (Version 1.2)
Components of conversational systems and their functions
<https://w3c.github.io/voiceinteraction/voice%20interaction%20drafts/paArchitecture-1-2.htm>
- Interfaces between components:
How components communicate
<https://w3c.github.io/voiceinteraction/voice%20interaction%20drafts/paInterfaces/paInterfaces.htm>

IPA Architecture



Device?

Browser?

Search Engine/DNS?

Websites?