



**VTP**

# **Voice Tools Project (VTP) Creation Review**

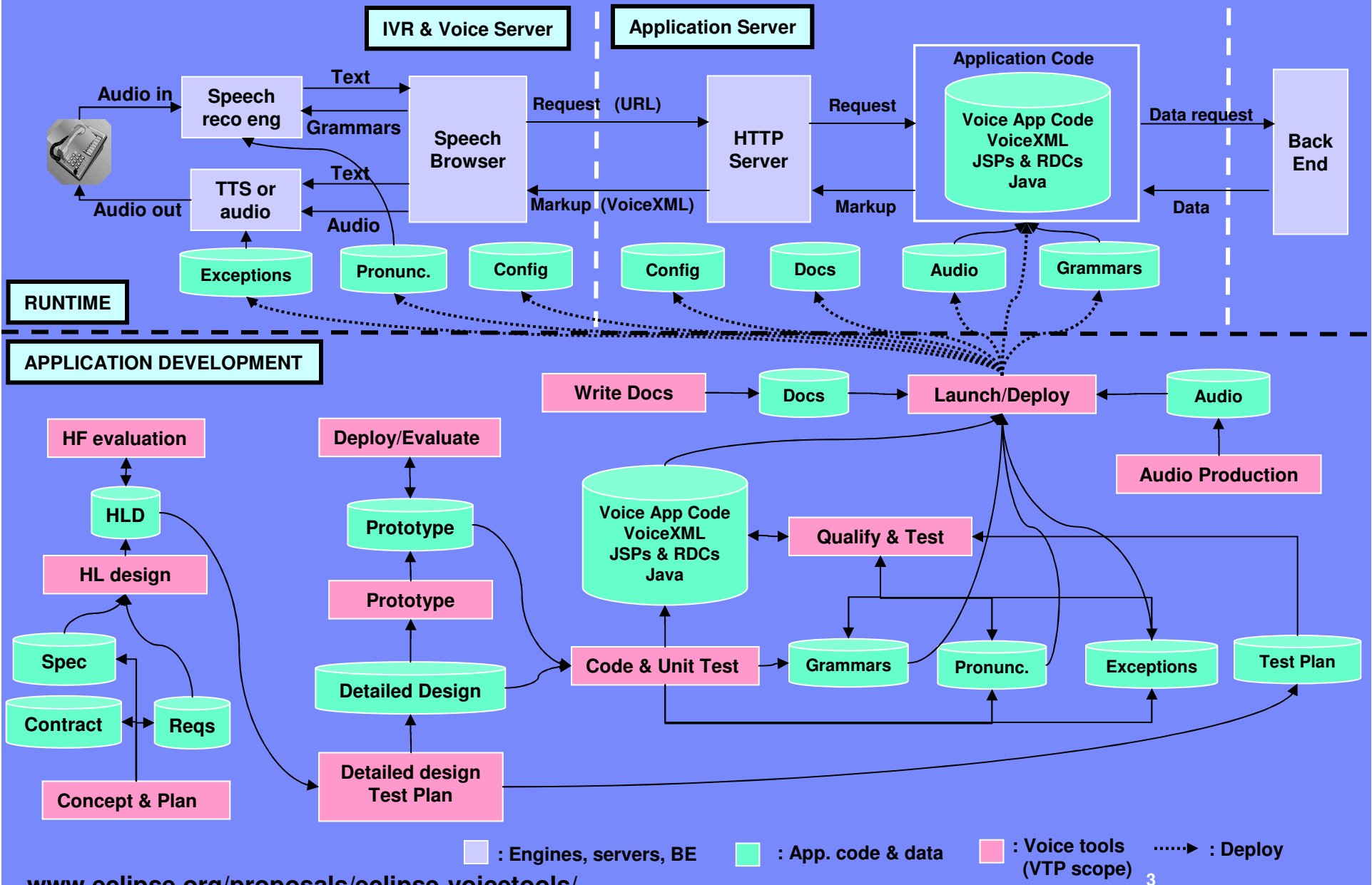
**Tuesday, February 15, 2005**



# VTP

## What is VTP?

VTP is an Eclipse technology project that focuses on voice application tools based on W3C standards, to help these standards become dominant in voice application development. It will depend on and extend the XML and Web development capabilities of the Eclipse Web Tools Platform Project .



## Slide 3

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**L1** This busy slide is best viewed in Slide Show mode, where it is presented a piece at a time.

The upper part of the slide illustrates a voice application at runtime. The lower part is the application development process which results in the application code and data (green boxes) that are ultimately deployed in the application runtime environment. Voice Tools, used to develop the application, are shown as red boxes.

Note that not all application development steps are shown in this slide. For example, a very important step is the fine tuning of the application code and data AFTER it is deployed. This feedback between the Runtime environment and the Application Development environment is not shown in this slide, in order to simplify the presentation.

Leo, 10/02/2005



## What will VTP do initially?

The initial code drop to the VTP will be a set of Voice Application Markup (VAM) editors that support the following W3C specifications:

- VoiceXML (including SSML)
- The XML Form of SRGS (Speech Recognition Grammar Specification)
- CCXML (Call Control eXtensible Markup Language).

These editors will be extensions of the SSE (Structured Source Editor) from the Web Tools Platform Project.

Additional voice application development tools will be added as the project matures.

## Other possible components (community driven)

### VoiceXML --

- Flow validator

- Interpreter (text-based)

- Simulator (speech-enabled interpreter)

- Debugger (command/control interface for interpreter)

- Visual designer (with code mapping from source, or code generation from design)

- Content-type support and tag validation in JSP editor

- SSML composer for TTS output personalization/tuning

### Grammar --

- SRGS ABNF editor (since IBM is contributing the SRGS XML editor)

- Grammar converters (ABNF->XML and XML->ABNF)

- Grammar structure validator

- Grammar generator (optionally with dynamic data access)

- Bulk utterance-matcher (text-based or speech-based)

- Valid phrase enumerator (with semantic interpretation results)

- Semantic Interpretation (SISR) tag editor

- Semantic Interpretation validator

- Utterance transcription manager/analyzer

- Grammar complexity analyzer

- Acoustic confusability analyzer

### CCXML --

- Call state validator

- Interpreter/Simulator

**Slide 5**

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**I7**

**Not prioritized.**

IBM\_User, 09/02/2005



## Who is currently involved?

### Committers by area of concentration:

- **VAM editors**

Clarence Nethery	IBM
Frank Sauer	IBM
Kamran Sadighi	IBM

**Project Lead/Architect**  
Jeff Kobal  
IBM

- **Web Integration and VoiceXML Interpretation**

Jayant Thomas	SBC
TBD	SBC
TBD	SBC

**Project Manager**  
Leo Leontiades  
IBM

- **Code assistance wizards**

Frederic Gloppe	HP
TBD	HP

- **Component TBD**

Andrew Wahbe	VoiceGenie
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## Feedback and interest?

### Positive feedback and interest expressed from:

- VoiceXML Forum Tools Committee (David L. Thompson)
- Audium (Mike Bergelson)



## Deliverables?

### VAM editors:

- High Level Design Complete – 1Q, 2005
- Specification Complete – 1Q, 2005
- Beta – 2Q, 2005
- Test Suite Complete – 2Q, 2005
- Implementation Complete – 2Q, 2005

### Web Integration and VoiceXML Interpretation:

- TBD

### Code assistance wizards:

- TBD



## Where are we now?

### VAM editors:

- High Level Design under way
- Specification under way
- Coding under way



## Future

Future activities include expanding the number of contributors, prioritizing the extensive list of voice application tools, and implementing them as resources permit.



## Formal Request

Based upon the preceding, the VTP development team formally requests a transition of the VTP project from “proposal” status to “project” status.

Transition to project status will allow us to move forward with:

- CVS access
- Web page access
- Developers mailing lists
- Components newsgroups
- Bug database



**VTP**

## Questions?

For more information, see:

[www.eclipse.org/proposals/eclipse-voicetools/index.htm](http://www.eclipse.org/proposals/eclipse-voicetools/index.htm)

Questions?