

## PARAGON SEMVOX ODP 53

# THE LEADING TECHNOLOGY FOR PROACTIVE INTERACTION AND ASSISTANCE SYSTEMS

Incorporating the latest AI technologies for a truly natural interactive dialog experience

Flexible dialog management is one of the key features of ODP S3-based assistance systems: users can phrase their input spontaneously and intuitively. The system understands complex requests and is able to ask in case of incomplete or vague input.

ODP S3- based systems **support the user proactively**: ODP S3 is able to process context factors and the user's personal preferences. These systems take initiative and make recommendations and suggestions.

Compared to conventional speech recognition, ODP
 53 offers a set of unique features: natural language understanding and intelligent system behavior



### **FEATURES**

- **▶** GOAL-ORIENTED INTERACTION
- ► PROACTIVE BEHAVIOR
- **► SUPPORTS NATURAL DIALOG PHENOMENA**
- ► TRUE MULTIMODALITY
- **▶** ODP S3 MAKES USE OF CONTEXT KNOWLEDGE
- **▶** USER MODEL & PERSONALIZATION (PROFILING)
- **► MACHINE LEARNING**
- ► REASONING
- **► SEMANTIC TECHNOLOGIES**
- ► TASK-BASED DIALOG MODEL
- ► MIXED INITIATIVE
- ► HYBRID SPEECH RECOGNITION AND PROCESSING
- ► NATURAL LANGUAGE UNDERSTANDING (NLU)
- ► NATURAL LANGUAGE GENERATION (NLG)
- ► MULTI-SLOT FILLING

### **SDK & TOOL CHAIN**

ODP S3 enables integrators to develop next-generation dialog systems and to integrate them into their own existing systems:

- ► The ODP Workbench provides an integrated tool chain based on Eclipse that supports all steps of the development process and contains a Software Development Kit (SDK)
- ► The SemVox Developer Portal provides a single point of access to tutorials, examples and the API documentation
- ► The **ODP Workbench** supports the entire development process, from the system specification to the generation of knowledge sources, the system test and the deployment on the target platform
- ► Intelligent tools such as Content Assist, Syntax Check and Wizards support the developers and enhance both productivity and quality
- ► Test cases and system documentation, which are considered vital for the QM process, can be generated automatically directly from the system specification
- ► The system enironment can be integrated already during dialog modeling. Complexities thus can be identified early to implement the optimal solution for the interface between voice control and the corresponding applications

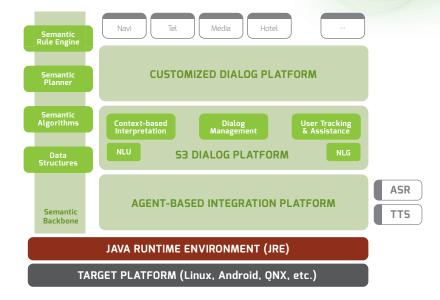
#### **PLATFORM**

- Java-based modular platform for naturallanguage dialog
- ➤ Write Once, Run Anywhere: Dialog components can be deployed on different target platforms
- ➤ Small footprint: Low resource demands, full range of features on embedded systems (also for J2ME)
- ► Target platforms: Linux x86/ARM, QNX Neutrino, Android, Windows Embedded, etc.
- Highly integratable: Android Apps, OSGi-Container. Servlet-Container

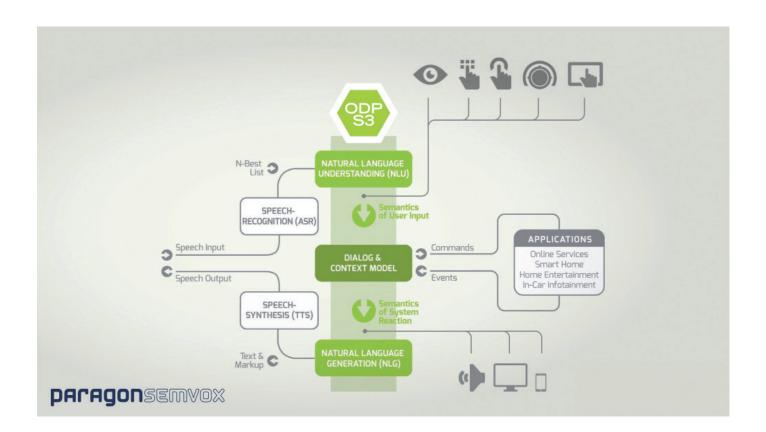
With ODP 53, developing
dialog components is as easy as
developing apps for smart
phones. Development times
become significantly shorter

The basis of ODP 53: AI-technologies that enable the implementation of intelligent solutions on embedded systems

"



#### **ODP S3 SYSTEM OVERVIEW**



paragon semvox GmbH | Konrad-Zuse-Straße 19 | 66459 Limbach | +49 (0)6841809010 | info@semvox.de | www.semvox.de