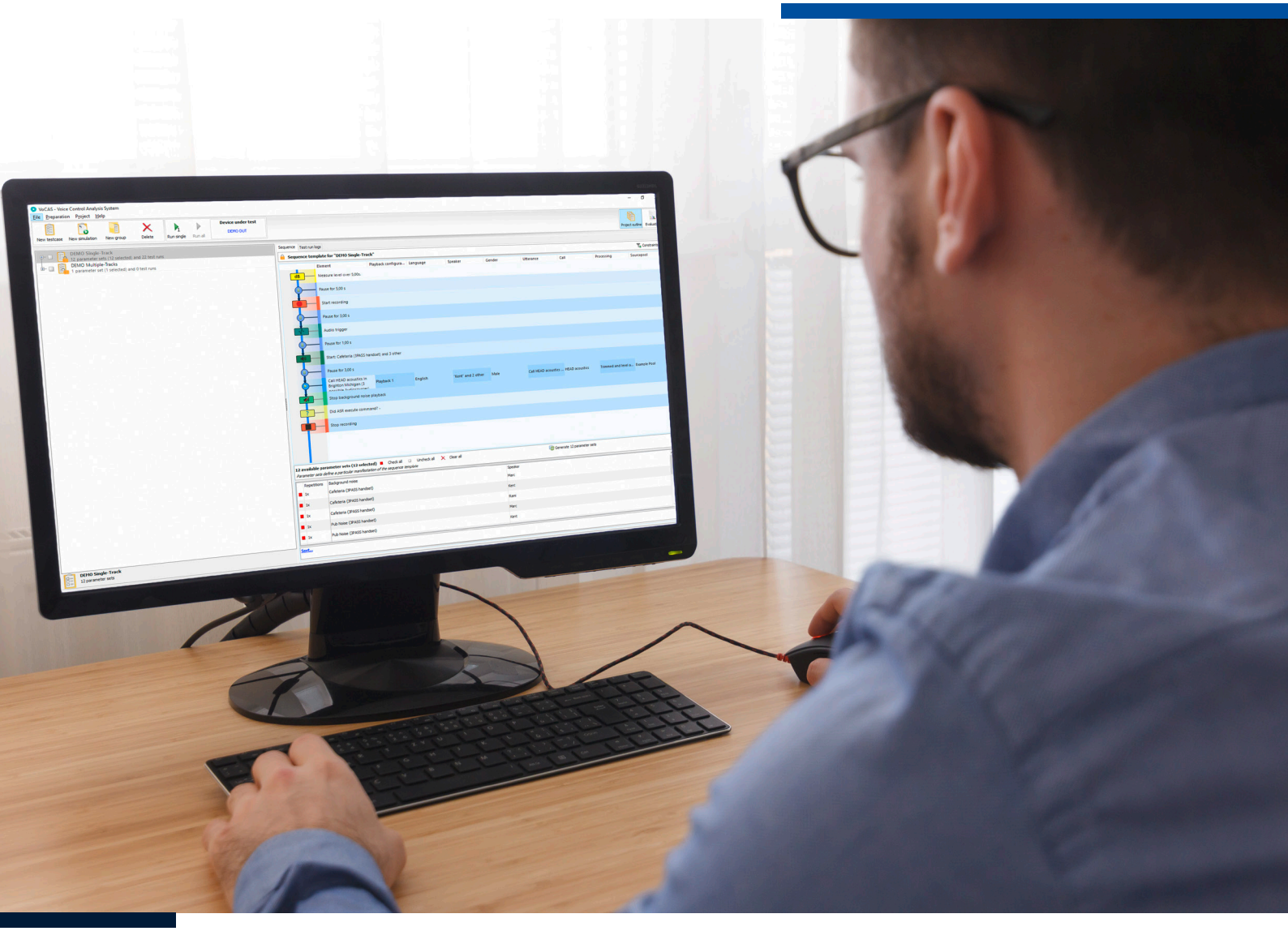
HEAD acoustics

DATA SHEET



Code 9164.x

# VoCAS Application Work

**App-VoCAS services – Overview, tasks, durations**

# OVERVIEW

## App-VoCAS

### Code 9164.x

App-VoCAS services – Overview, tasks, durations

VoCAS is an automated Voice Control Analysis System developed by HEAD acoustics. It evaluates the quality of Automatic Speech Recognition (ASR) systems and devices under realistic and fully reproducible conditions.

HEAD acoustics GmbH offers the service of VoCAS application work for customers. App-VoCAS aims on the enhancing performance and efficiency of the customer's VoCAS configuration. This service involves a HEAD acoustics GmbH application engineer creating a custom test sequence in VoCAS based on customer demands and DUT capabilities. The offered services differ in working hours, relating to the complexity of the individual task and customer requirements.

## KEY FEATURES

- Fast and smooth project completion
- Progress can be followed at any time via key milestones
- Assured conclusive test results and optimized result evaluation
- Provides practical application training when working on-location
- Client receives resulting databases and program code after completion

## SERVICES

App-VoCAS 1 (Code 9164.1)
- 1 day (approx. 8 work hours)

App-VoCAS 2 (Code 9164.2)
- 2 day (approx. 16 work hours)

App-VoCAS 3 (Code 9164-3)
- 3 day (approx. 24 work hours)

# DETAILS

VoCAS is a comprehensive tool to test ASR systems and devices, e.g. smart speakers. Utilizing its spectrum of possibilities and ensuring meaningful test results, extensive knowledge of the software and the involved HEAD acoustics products is highly beneficial.

HEAD acoustics offers transitional assistance by experienced VoCAS application engineers in the form of work hour services. The application engineer supports customers in setup and application of the system. As such, App-VoCAS is not a product in a traditional sense, but a certain amount of work time. During this time, the application engineer works in close teamwork with the customer on a tailor-made, use-case-specific solution. This ensures smooth and rapid implementation. On the next page is a table with exemplary VoCAS tasks and their approximate duration.

The service can be performed on-site or remote. On-site work improves efficiency and provides first-hand work experience with VoCAS. However, HEAD acoustics charges the customer with travel and accommodation costs for on-site work. They are calculated on actual cost basis. The application engineers speak English and German. Translation to other languages shall be arranged by the customer, the responsible HEAD acoustics subsidiary or the authorized sales representative beforehand.

At the beginning of the process, tasks and mutual prerequisites for the project are laid out. The ensuing implementation work is performed in continuous close cooperation. Project management is solely handled by HEAD acoustics GmbH.

For efficient work, it is essential that customer-internal hierarchies and sub-contractor roles are clearly defined before work begins. Additionally, the customer shall take care of unhampered flow of information – internal as well as external (e.g. sub-contractor) employees shall have authorization to communicate with the application engineer from HEAD acoustics.

If desired, an NDA (Non-Disclosure Agreement) can be concluded after mutual consent. If sub-contractors are part of the project, the customer is responsible to include them in the NDA.

After completion of a project, the client receives the work results to use and edit them as desired. Definite bug fixes are provided free of charge, but software maintenance, updates and regular VoCAS measurements are not part of App-VoCAS.

## Exemplary tasks & estimated* work hours

| Typical task | Estimated work hours |
|---|---|
| Import audio data from Microsoft Excel sheet / text document / file structure | 2 hours |
| Export background noise / reverberation data, create playback configurations | 0.5 hours |
| Mouth equalization, microphone calibrations | 0.5 hours |
| Background noise simulation setup and equalization | 3 hours |
| Build test cases and test sequences | 4 -8 hours |
| Write Python script reading ASR log files from DUT | 6 - 8 hours |
| Write Python script reading ASR log files from cloud | 6 - 8 hours |
| Write Python script activating ASR | 6 - 8 hours |
| Write Python script writing log and evaluation file during measurements | 3 hours |

*) The work hours given in this table are approximations. In case of unforeseen circumstances, the actual work hours may differ.



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