

Q-Chess Mobile function overview

Checks, tours & audits

With Q-Chess Mobile, you define which checks are to be carried out at which location and at what time. The results are stored in an audit-proof manner and can be easily analyzed. With the management dashboard, you always have an overview of the quality indicators!

Regular checks and tours

Regular checks are the be-all and end-all in the food industry. With Q-Chess Mobile, you can define them in no time at all,

- ▶ Which controls
- ▶ at which location
- ▶ at what frequency
- ▶ from which persons

are to be completed. With integrated deviation processing, you can ensure that every problem identified is tracked and rectified.

Self-audits and self-assessments

The requirements for conducting self-audits and self-assessments are diverse. Q-Chess Mobile supports you with planning, implementation and evaluation.

With the integrated key performance indicator system, you can quickly and easily identify improvements/deteriorations and optimally prepare for certifications such as IFS, BRC, etc.

Remote audits

With Q-Chess Mobile, you can carry external audits of suppliers conveniently using a tablet and then send the results by email. If there are any deficiencies, the audited supplier can view these via their personal Q-Chess Mobile Audit Portal and document corrective measures directly in the portal. In this way, both companies are always informed about the progress of defect rectification.

Inspire auditors!

With Q-Chess Mobile you will impress in the audit! With just a few mouse clicks, you can create comprehensive reports and answer any question the auditor may have.

Of course, all recorded data is stored in Q-Chess Mobile in an audit-proof manner and there is a documented audit trail for every change.



External audits

The Q-Chess Audit Portal can be used to create and process deviations and measures from external audits. The

- ▶ audited companies are assigned deviations and
- ▶ the audited company can record the necessary measures to rectify the deviations in a web portal.

This makes deviation management across company boundaries transparent, traceable, secure - and above all: child's play.

Perform audit and assign deviations

Company A conducts an on-site audit at company B using the Q-Chess Mobile app and documents non-conformities as deviations in Q-Chess Mobile. After completing the audit, Company A assigns the non-conformities to an employee of Company B.

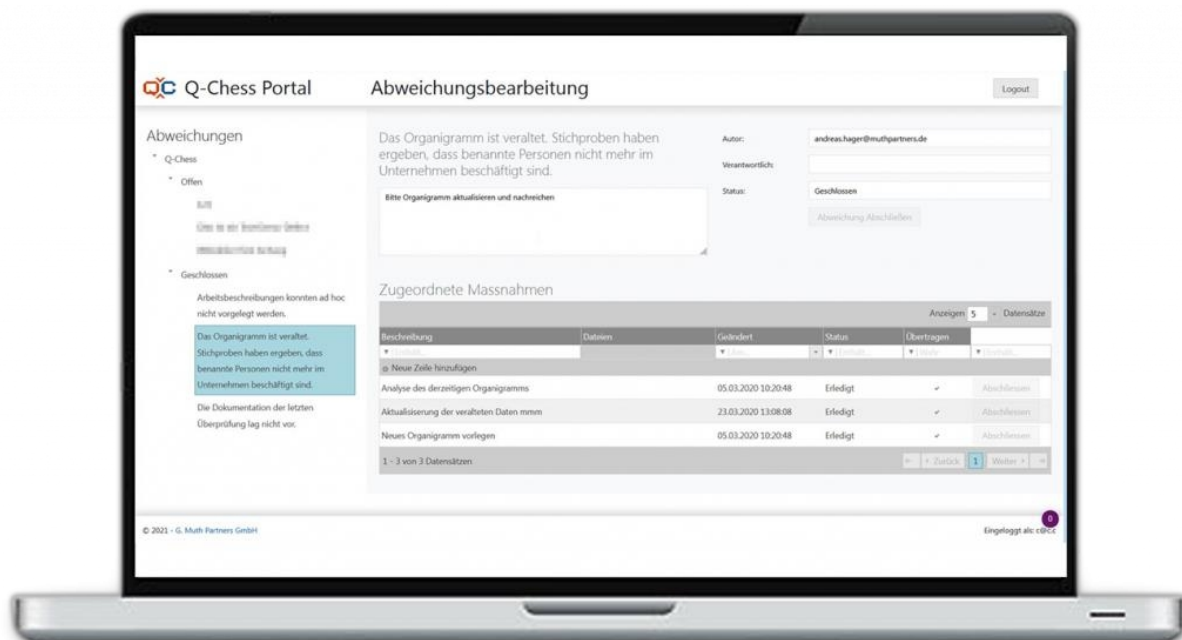
Process deviations and define corrective measures

The employee of company B receives an email with a link to the Q-Chess Mobile Audit Portal. Company B can use the link to create access to the portal so that the deviations can be processed. Company B can then create corrective actions for each deviation in the portal. As soon as a measure has been created, company A is informed and asked to check the measure.

Check and approve or reject corrective measures

As soon as company B has created and released a measure for a deviation, company A is informed. Company A can then check the action in Q-Chess Mobile and accept or reject it.

If a measure is accepted, the associated deviation is closed. However, if a measure is rejected by company A, then company B must create a corrective measure in the Q-Chess Mobile Audit Portal.



Production data acquisition & production control

With Q-Chess Mobile, you can quickly and easily record production and quality data along the value chain. By integrating it into existing IT systems (such as MES and ERP), you can control the process flow based on the recorded data.

Q-Chess Mobile

- ▶ supports process modeling based on BPMN 2.0, so that even complex control processes can be mapped in a short time.
- ▶ can exchange data with existing IT systems via any interface, so that an integrated quality management process can be mapped on the basis of Q-Chess Mobile Workflows.

For example, the data collected using the Q-Chess Mobile app can be used to:

- ▶ to block/release batches.
- ▶ batches from warehouse A to warehouse B,
- ▶ to request further inspections by the QM management if, for example, quality characteristics are not 100% complied with or automatically generate deviations.

This makes Q-Chess Mobile the "link" between production and quality management and enables seamless data exchange between the IT systems involved.



Maintenance checks & deviation management

Q-Chess Mobile helps you avoid downtime due to unplanned maintenance. Q-Chess Mobile reminds you of upcoming maintenance work and makes it easy to document the work carried out. If defects are detected during maintenance, the integrated deviation management ensures that the defect is rectified promptly and not forgotten.

Maintenance management

With Q-Chess Mobile, your technical service department always has an overview of which machines need to be serviced and when. Individual maintenance checklists for each machine ensure that maintenance work is always carried out according to the same quality standards. Even complex and illustrated maintenance instructions are no problem with Q-Chess Mobile.

In order not to lose track of which maintenance activities have been carried out, are due to be carried out soon or already been carried out, Q-Chess Mobile provides you with the operating log and the numerous report functions.

The system offers a wide range of options for monitoring and evaluation.



Deviation management

With Q-Chess Mobile, you always have an overview of which deviations have occurred and which corrective measures have been defined to rectify them.

Regardless of whether a deviation created automatically in the context of a production control or someone recorded a deviation during an audit or maintenance. A responsible person or group of people is stored for each deviation and automatically informed of the deviation. As soon as this happens, the relevant persons are informed by Q-Chess Mobile and requested to define a corrective action.

A responsible person or group of people must also be assigned to this corrective action so that it is always clear who responsible for carrying it out. Processing deadlines can be assigned to a corrective action so that the responsible persons are also reminded when a deadline expired.

Once a corrective action has been completed, the effectiveness of the action must be checked last. Only when the effectiveness has been confirmed by the responsible body is the deviation corrected.

This allows you to quickly and easily monitor from a central location which deviations still need to be rectified and the status the rectification.

With Q-Chess Mobile, you always have all the deviations under control and can "watertight" processes shine!

Q-Chess components

Mobile app

Carry out checks

- ▶ Select and perform test
- ▶ Enter data or select from options
- ▶ Automatically transfer data from other devices (thermometers, scales, etc.)
- ▶ Scan barcodes or add photos

Monitor due dates

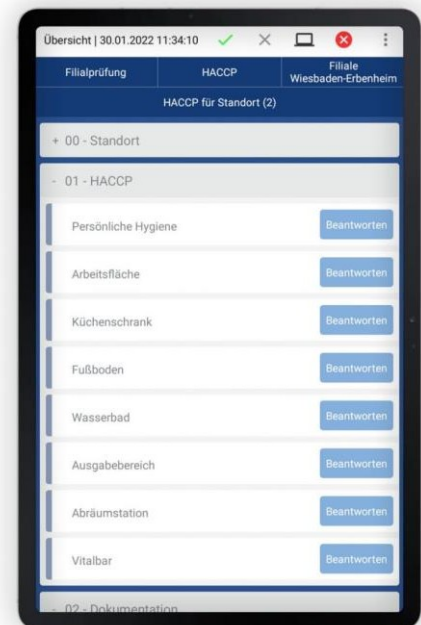
- ▶ Display of due checks (due date due to missed deadline, due date in process flow)
- ▶ Enter reason if due date is missed
- ▶ Standing in for colleagues (deputy function)

Receive notifications

- ▶ Display of new deviations
- ▶ Display of measures to be carried out
- ▶ Display of the processing progress
- ▶ Notification of change of responsibility

Process deviations & measures

- ▶ Record deviation and assign to responsible person or team
- ▶ Define measure for deviation
- ▶ Set deadlines for rectification
- ▶ Finalize measures and check their effectiveness (dual control principle)
- ▶ Define corrective action if ineffective



Desktop app

Checklist processing

- ▶ Create checklists
- ▶ Define answer options for questions
- ▶ Define threshold values and set follow-up actions
- ▶ Define key figures (make quality measurable)

Project planning

- ▶ Defining test objects and planning tests
- ▶ Assign tester
- ▶ Set repetitions

Review editing

- ▶ View exam results
- ▶ Approve or reject test results (4-eyes principle)
- ▶ Revise audit results (with audit trail)
- ▶ Define and generate reports

Deviations & measures

- ▶ Coordinate processing
- ▶ Evaluate results
- ▶ Document status

Quality analysis & operating diary

- ▶ Compare exam results
- ▶ Analyze audit results

Reporting

- ▶ Create reports and charts
- ▶ Send reports automatically by e-mail
- ▶ Connection to business intelligence systems

Administration

- ▶ Maintain organizational structure
- ▶ Manage user rights
- ▶ Manage mobile devices

Q-Chess Audit Portal

External deviation processing

- ▶ Login via web possible (OAuth2)
- ▶ View deviations
- ▶ Create remedial measures
- ▶ Delegating the processing of measures

SAP Hub (optional)

Communication with SAP

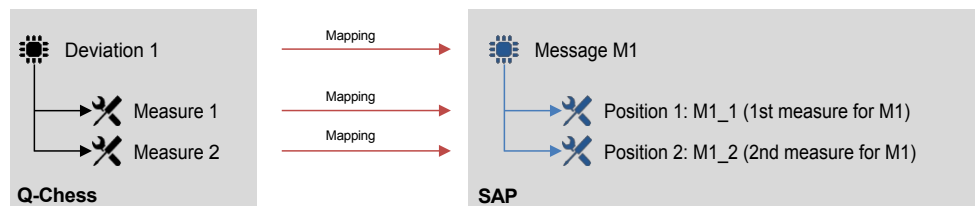
- ▶ Calling BAPIs
- ▶ Calling up RFCs
- ▶ Read/write data

Optional extension: SAP Hub

The SAP Hub can be used to exchange any data between Q-Chess and SAP. The exchange can be unidirectional or bidirectional.

Export data to SAP

Deviations and measures from Q-Chess, for example, can be created as messages in SAP via the SAP Hub. In the example below, the measures for "Deviation 1" in Q-Chess are "Measure 1" and "Measure 2" have been created. Similarly, the message "Message M1" with the measures "M1_1" and "M1_2". The measures "M1_1" and "M1_2" are created as items for message M1.



Workflow integration

Inspection lots or work or production orders, for example, can also be read in from SAP and a workflow for recording data can be started in Q-Chess. Once the workflow has been completed and all relevant data recorded, it can be transferred to SAP and the inspection lot or work or production order can be set to completed.

Technical integration

The SAP Hub communicates with an SAP ABAP backend via the SAP RFC protocol or alternatively via web sockets. All SAP ABAP backend versions from R/3 4.6C to S/4 HANA and the SAP BTP ABAP Environment are supported. SAP BTP ABAP Environment, S/4 HANA Public or Private Cloud can be connected via the SAP Cloud Connector. Integration into the Q-Chess architecture takes place via a REST service.

