



SUNPOWER®

Triniti, builds a custom Quality Management System for Oracle EBS R12.1.3



About SunPower

With nearly 3 decades of solar leadership, since 1985, SunPower has been leading global solar innovation. SunPower solar panels consistently deliver more energy and long-term peace of mind with the highest performing solar power systems available. SunPower is the solar energy choice of more homeowners and businesses around the world. Some quick facts about the organization are:-

- Global headquarters based in Silicon Valley since 1985
- Diversified global portfolio leading residential, commercial and utility solar energy markets
- World's highest efficiency solar panels featuring SunPower Maxeon cell technology
- More than 200 patents for solar technology



Existing Application Landscape

Earlier SunPower was using a costly on-premise Quality Management System (QMS) which was standalone, with no integrations with SunPower's existing Oracle production system. The limitations of the old system had resulted in productivity losses and lack of compliance. SunPower has grown much larger since their existing QMS system's initial introduction back in 2007. Hence the enterprise faced certain business challenges which are described in the following section.

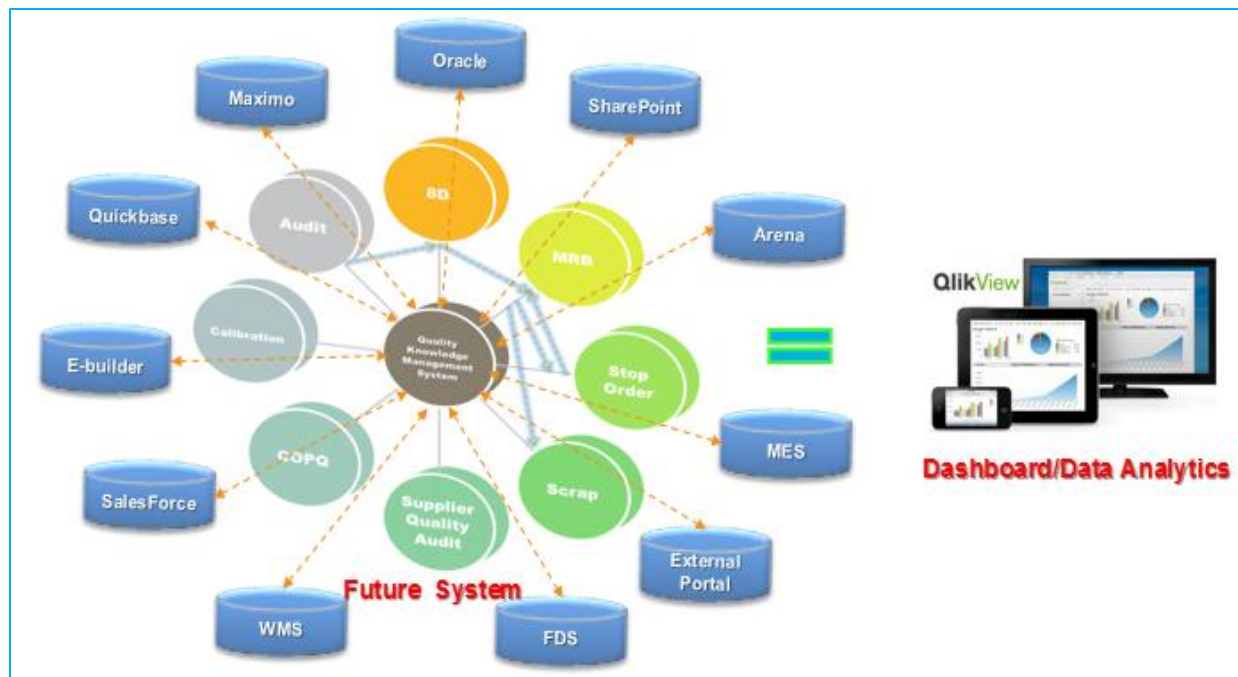
Business Challenges

- Limited number of licenses (40 concurrent users)
- System was completely non-integrated and disconnected from the existing Oracle production systems and other SunPower applications i.e. Maximo, SFDC, Quickbase etc. Also, there was no integration with Oracle production HRMS to access updated employee data and roles
- HRMS data was manually loaded into old system's database
- Login credentials were hard to remember as they were not same as to Oracle production SSO
- The system was non-intuitive with non user-friendly UI. This created reluctance within the users
- Data export feature was missing and the only available feature was "copy and paste" of the search results to an excel spreadsheet which required manual editing to make the data viewable
- No relevant search results were yielded by search function
- No save function for newly created records was available. System required the record to be submitted for review instead
- Limited ability to generate simple reports (i.e. how many records are opened or closed). Additionally, there was no functionality to generate complex reports listing various status, number of days submitted, etc.
- Identifying "recurring issues" feature was also unavailable



Future Application Landscape

The ultimate goal of the project was to select, design, develop and deploy an integrated and cost effective Quality Management system application which would be more intuitive, user-friendly, integrated and cost effective.





Trinit Engagement

This project involved working with various technologies available in Oracle APPS tech stack. Total number of database objects, workflows, PLSQL programs, lookup, DFF, menu, functions, responsibilities, FND messages, QA collection plans and collection elements, OAF components, discoverer reports exceeded hundreds.

Some of the project highlights:

- Custom solutions used Oracle quality module as a place holder for iQuality data. Users could enter/update the quality results and it was getting stored in Oracle quality module tables
- OAF pages were created for entering/updating the quality results
- Created custom wrappers which were getting called from OAF pages to enter/update the data
- As soon as quality results were entered, notifications were sent to the responsible business users of that request using Oracle Workflow
- Oracle workflow was used to get approvals from different stake holders/business users
- Discoverer reports & QlikView dashboards were created for reporting purpose

Data Conversion

The most challenging part of this project was data conversion as the existing QMS system's data model was completely different from what was implemented, i.e. iQuality.

- In their existing QMS system everything was getting stored in seven tables, in iQuality it was getting in one centralized table based on collection plans
- Existing QMS was having fields as free text (users can enter anything/special characters), iQuality had everything in the form of LOV's and Dropdowns
- Converted around 7 years data from existing QMS to iQuality

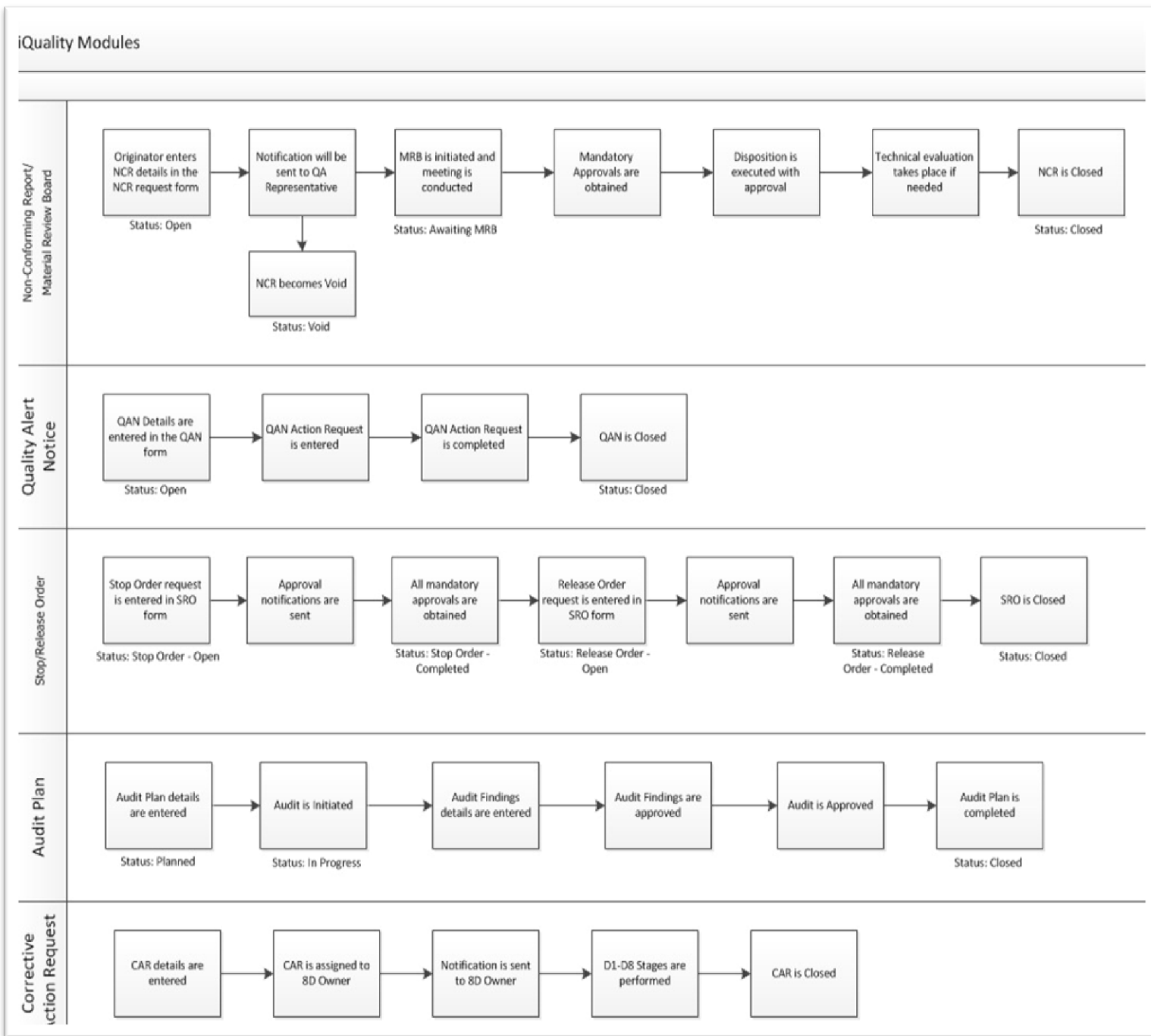


Business Benefits

- iQuality UI was very user friendly with easy to search, access, enter, view information and trigger workflow alerts. Creating a record and inputting basic information became very intuitive and easy.
- Users can now login with the same Oracle production instance SSO login, without the need for any separate licenses
- iQuality was integrated with SunPower's other applications like HRMS data, Arena Item Master, MES, Maximo, SFDC etc.
- iQuality was accessible by all the users available in Oracle, according to their roles. Thus, there is no need for uploading user's information manually anywhere
- iQuality has enhanced ability to upload, download and view documents with ease in all browsers
- iQuality user interfaces now has option to export the data to Excel sheet
- Report generation is easy in iQuality. Users can download the data into excel sheets and play around with it
- iQuality now has the feature to identifying the recurring issues
- History of actions happened on the record was also available in iQuality
- " To-do list" indicator was available to all the users on Oracle apps home screen
- Manual data entry was reduced through Integrations with other systems



Process Flow



Conclusion

SunPower has taken one step forward to deploy an Integrated Quality Management Software known as iQuality, which has replaced their existing QMS. This implementation led to a more intuitive system with user friendly UI, complete integration with Oracle Production and automated process mapping

Want to know more about the solution. We would be delighted to share our experiences with you – please mail us at: contact@triniti.com

About Triniti

Founded in 1997, Triniti provides world-class business and application consulting, along with software products specifically designed to extract the full value of Oracle's e-Business Suite. At Triniti, we understand that high quality data, which can be immediately acted upon, provides a strategic advantage in the marketplace. Triniti products and Oracle e-Business Suite implementations are designed to deliver a finely tuned, robust environment that supports consistent, fact based decision making in real time.

We provide best in class solutions for complex supply chains comprising internal and/or outsourced manufacturing. Triniti has successfully led large multi-site, multi-country "big bang" implementations of the entire e-business suite. Likewise, Triniti has also implemented for much smaller companies using techniques that compliment their business objectives.

