NuclearIQ Mobile app FACT Sheet, revised June 7, 2016   version 3.0

Background: The NuclearIQ Mobile app (v3.0) is designed from the ground-up to be Fleet-ready, tablet-centric, highly-secure, technology-independent means for NuclearIQ users to access their database for querying or updating anywhere anytime, whether the devices are connected to the wireless network or not. The mobile application is included as a feature of NuclearIQ at no additional cost to supported clients. This document is designed to help NuclearIQ clients plan for the implementation in their sites. The key use cases are outlined below.

Key Features:

- Access to live chemistry data for a single site or multiple sites while connected to a wireless network.
- Access to the 100 most recent sample/analysis historical sample points for each system/analysis within the user's mobile chemistry groups while the device is **not** connected to a wireless network.
- Enhanced security within the mobile app so the users have the same rights as they would within the full version of NuclearIQ.
- Support for LDAP (active directory) log-ins and security tokens to meet stringent fleet and site security policy
- Ability to download a single site or multiple sites 'Google' GIS tiles (maps) to use within the system mapping form.
- Updated map functionality that allows a user to pick a sample point from the system mapping form and enter real time lat/long details as well as sample/analysis data for that system.
- The application allows system names that are in a particular unit to show in a particular color.

Use-case examples: There are seven primary uses we have developed for use within the application – more functionality will follow with each release over time.

1. Chemistry Summary

    Management oversight, query, data review, specifically designed to support managers and supervisors in daily meetings by providing access to real time data and trend plots on their tablet. While the device is connected to a wireless network, a user has access to see live chemistry data from their database. However, if a user were to lose connectivity to a wireless connection, the user would still be able to see a default view of the 100 most recent sample/analysis historical sample points for each system/analysis within the user's mobile chemistry groups.

2. NuclearIQ Database

    This option allows users with the appropriate security permissions to add new systems, analysis, samples and analysis values when the user's device has a wireless connection established. The option also allows users to add data to existing samples that are within the database.

3. System Mapping

    Clicking on this option will bring up a (Google) map to view the locations of the systems for the users home site as well as other sites within the users database. Each location is pinned on the map using latitude and longitude coordinates; clicking on a pin will show the name of the system; and clicking on the system name will bring the user to the data entry screen. This form also allows users to add latitude and longitude coordinates on the fly to existing systems.

4. Mobile Rounds

    This option enables a technician to pre-configure in the NuclearIQ application the sample points he intends to visit during his rounds while in the field. Then, when in the plant on rounds, he can enter results and comments for the sample points on the tablet. If the tablet becomes disconnected from the network while on rounds, the tech continues to grab samples and enters results directly on the tablet in 'disconnected mode'. The technician returns to their lab/office and reconnects to a wireless network, the data is then synced to the NuclearIQ database.

5. QR/Barcode Scanner

    The user can use the device's internal camera to scan barcode or QR code of an existing system ID to bring up the system screen for data entry.

6. Lab Notebook

    Clicking on the button will bring up a screen for the user to create a lab notebook entry. They will be able to choose Group, Group List Item, and add a description. The author and date will be defaulted to current user and date. Techs can also attach images to entries to ensure full understanding of the entry.

7. Reports

    This option enables managers, supervisors and technicians to view PDF chemistry reports of all sorts that have been saved to a network directory that is accessible to the tablet device for viewing.

Requirements: the mobile app is intentionally developed to support tablet computers, as they are inexpensive and the app requires tablet-sized real estate for proper displays.   The app requires the latest versions of hardware or software as follows:

NuclearIQ – the NuclearIQ Mobile app requires the client's desktop version to be upgraded to 1.2.9.2

IOS – latest IPad air2 or iPad mini models with latest OS (9.2.1)

Android – latest hardware and latest op/sys

The iOS, Android and Window devices require a wireless network connection in the chemistry lab or office area. Unlike the devices and technology from old-style "data-loggers", these devices do not support a direct-cabled sync.

Windows – latest hardware and op/sys (8.1) – the **Windows Surface Pro 3** is supported as a desktop device running full NuclearIQ, and as a touch-screen mobile tablet device running NuclearIQ/Mobile. It can be docked and undocked, wired or wireless. The mobile app works in disconnected mode and sync's when reconnected to the docking station or when the wireless network is detected. This device supports clients wishing to use the one device as both a desktop device and a mobile tablet, changing between NuclearIQ when in desktop mode and NuclearIQ/Mobile when in portable mode. Desktop NuclearIQ requires a full time network connection.

Support: NuclearIQ Mobile can certainly be installed, implemented and supported by fleet or site chemistry or IT personnel utilizing the User Guide. Help Desk support is provided as a part of existing NuclearIQ support. For clients who desire on-site support and assistance with configuration, setup, change management, GCR can provide onsite support and we can custom tailor a service program to meet your needs.

Most sites can benefit by having our consultant on-site for a 3 day engagement, to do the following among other things:

- Provide one-on-one hands-on training to Chemistry Staff to ensure optimal configuration and use of the Mobile app
- Install the app on the devices and test
- Configure the techs and the managers custom views on their tablets so they see the correct systems and data
- Configure the reports in the reports folder so they are accessible to the tablets
- Go through the process of normal rounds with the techs to assure the 'change management' is addressed and users are comfortable

Version 3.0 NuclearIQ Mobile App Users guide and Ipad Setup Guides are available for download and review, as well as system design and architecture drawings.