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1.00	nSite Central		PTC_FUNC_SPEC-01
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PTC Functional Specification

nSite Central

General Overview

Patterson **nSite Central** is a product suite allowing a corporate office to connect, manage, view and report against any number of **nSite Central** or straight **EagleSoft** installations. One portion of this software package is web-based, allowing corporate **USERS** to access and view information from **CLIENT** locations, while the other portion is an agent-based data mining system responsible for the collection and retrieval of pertinent information.

Terminology

- **QUERY** – A **QUERY** is either a **USER**-supplied or automated request for data from a **CLIENT** or **CLIENTS**.
- **CLIENT** – A **CLIENT** is a group of computers located within the same dental office containing information solely relating to that office.
- **CORPORATE** – **CORPORATE** is a company that has purchased **nSite Central** in order to manage its **CLIENTS**.
- **USER** – A **USER** is any employee of **CORPORATE** who has an interest in viewing its financial records and/or client data.
- **ADMIN (ADMINISTRATOR)** – The **ADMIN** is an employee of **CORPORATE** who is responsible for system configuration, data-mining management, and overall system security, as well as creating and maintaining **USER** accounts.
- **REPORTING APPLICATION** – The **REPORTING APPLICATION** is a web-based graphical user interface that allows **USERS** to create **QUERIES** and view **QUERY** results.
- **CORPORATE I.S. MANAGEMENT APPLICATION** – The **CORPORATE I.S. MANAGEMENT APPLICATION** is a web-based graphical user interface that allows **ADMIN** to manage **USERS**, configure site settings (including security and data-mining settings), create **QUERIES**, and view **QUERY** results.
- **nSite Central** – **nSite Central** is the name used to refer to the overall software package detailed in this document.
- **EagleSoft** – **EagleSoft** is the name used to refer to the software package run at **CLIENT** locations.
- **CPDL (Centralized Performance Data Layer)** – The **CPDL** is a module that contains a database which stores the results of **USER**-submitted and automated **QUERIES**.

Functionality Targets

This group of functional items is considered the minimum requirement specification for initial design and release.

- **nSite Central Registration** – The software package is installed by a Patterson Employee, after which the **ADMIN** account is configured. **ADMIN**'s password

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is hardcoded into the software, allowing for static login; this ensures that **ADMIN** is guaranteed login access under any/all circumstances.

- **CORPORATE I.S. MANAGEMENT APPLICATION Configuration (ADMIN Login)** – Using this interface, **ADMIN** can change all site settings.
- **USER Creation** – Any **USER** accounts must first be created by **ADMIN**. **USERS** may not create their own accounts. Upon creation, **USER** has no privileges; all subsequent privileges must be granted to **USER** by **ADMIN**.
- **USER Login** – Once a **USER**'s account has been created, the **USER** may login and use services for which s/he has access.
- **QUERIES** – Once a **USER** has **QUERY** privileges, the **USER** may submit a customized **QUERY** to the **CPDL**. The **CPDL** executes the **QUERY** and returns the results to the **USER** in table form.

Additional Functionality

This group of functional items is considered long-term goals but do not need to be present in initial design or release.

- **Scheduled QUERIES (Automated Reporting)**: A **USER** may subscribe to a **QUERY**, after which s/he will receive reports in PDF format automatically via email of the results of the **QUERY**.

Excluded Functionality

This group of functional items has been discussed thoroughly and is considered as not required.

- **Data Mining Agent System**: Data mining agents handle custom **QUERIES**, which are created by **USERS** to compile desired information from specified **CLIENT** locations.

User Stories

- **CORPORATE requests nSite Central package**
 1. **CORPORATE** sends request for an **nSite Central** package.
 2. Request is processed.
 3. Software package is sent to **CORPORATE**.
 4. **CORPORATE** receives package.
 5. Software is installed on **CORPORATE**'s server.
- **ADMIN account is configured**
 1. Software is installed on the server.
 2. **ADMIN** logs on to **CORPORATE I.S. MANAGEMENT APPLICATION** with hard-coded password.
 3. **ADMIN** configures settings for site.
- **USER requests account from ADMIN**
 1. **CORPORATE** sees need to add an additional **USER** account.
 2. New **USER** submits desired username and password to **CORPORATE**, which gets forwarded to **ADMIN**.
 - a. If username already exists, **ADMIN** will select a new username for **USER** that has not been previously used.

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- b. **ADMIN** will retain **USER**'s original password.
 3. **ADMIN** logs on to **CORPORATE I.S. MANAGEMENT APPLICATION**.
 4. **ADMIN** navigates to **USER** management interface.
 5. **ADMIN** creates new **USER** account with default privileges using the username and password combination generated in Step 2.
 6. New **USER** account is ready for use.
- **USER** subscribes to reports
 1. **USER** wishes to receive reports of the results of automated **QUERIES** via email.
 2. **USER** logs on to **REPORTING APPLICATION**.
 3. **USER** navigates to automated **QUERY** section.
 4. **USER** selects **QUERY** or **QUERIES** s/he is interested in following.
 5. **USER** submits request through a form.
 6. **REPORTING APPLICATION** returns a page with either a "Subscription successful" or a "Subscription failed" message.
 7. **REPORTING APPLICATION** sends **USER** a confirmation email if successful.
 - **ADMIN** deletes **USER** account
 1. **USER**'s account is no longer valid for any number of reasons:
 - a. **USER** has done something worthy of account deletion.
 - b. **USER** was fired from **CORPORATE**.
 - c. **USER** is no longer an employee of **CORPORATE**.
 - d. **USER**'s account has been compromised.
 - e. Any other reason deemed appropriate by **ADMIN**.
 2. **ADMIN** logs on to **CORPORATE I.S. MANAGEMENT APPLICATION**.
 3. **ADMIN** navigates to page that displays a complete list of **USERS** for **CORPORATE**.
 4. **ADMIN** selects account of **USER** that was deemed worthy of deletion.
 5. **ADMIN** deletes **USER**'s account.
 6. **USER**'s account is no longer present within **nSite Central**.
 - **nSite Central** data mining service fails, **ADMIN** still logs in
 1. One of several possible failures occurs:
 - a. The data mining management system of **nSite Central** fails.
 - b. **REPORTING APPLICATION** fails.
 2. **ADMIN** logs on to **CORPORATE I.S. MANAGEMENT APPLICATION**.
 3. **ADMIN** views error logs to determine the problem.
 4. **ADMIN** determines the appropriate course of action.
 - **ADMIN** creates connection with **CLIENT**
 1. **CORPORATE** wishes to add a new **CLIENT** to **nSite Central**.
 2. **ADMIN** logs on to **CORPORATE I.S. MANAGEMENT APPLICATION**.
 3. **ADMIN** navigates to connections page, which displays list of all **CLIENT**s currently connected.
 4. **ADMIN** clicks "Add new client" button.
 5. **ADMIN** is taken to a new page with a form to be completed.
 6. **ADMIN** supplies necessary information.
 7. **ADMIN** submits form.

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8. New **CLIENT** connection is added to overall **CLIENT** connection list with its current connection status.
- **ADMIN changes USER privileges**
 1. One of several possible reasons exists for **USER**'s privileges to be changed:
 - a. **USER** desires his/her settings to be changed.
 - b. **CORPORATE** deems it necessary to change privileges for a particular **USER**.
 2. If **CORPORATE** approves privilege modifications for a **USER**, permission is given to **ADMIN** to make the changes.
 3. **ADMIN** logs on to **CORPORATE I.S. MANAGEMENT APPLICATION**.
 4. **ADMIN** navigates to **USER** management interface.
 5. **ADMIN** selects **USER** for whom privileges need to be changed.
 6. **ADMIN** makes necessary changes to **USER**'s privileges.
 7. **USER**'s new privileges are now in place.
 - **USER login**
 1. **USER** wishes to access **REPORTING APPLICATION**.
 2. **USER** navigates to login page of **REPORTING APPLICATION**.
 3. **USER** enters username and password.
 4. **USER** is now logged in to **REPORTING APPLICATION**.
 - **USER creation of QUERIES**
 1. **USER** wishes to send a **QUERY** to **CPDL**.
 2. **USER** requests appropriate privileges from **ADMIN**.
 3. Upon receiving necessary privileges from **ADMIN**, **USER** logs in to **REPORTING APPLICATION**.
 4. **USER** navigates to **QUERY** creation interface.
 5. **USER** creates a custom **QUERY** and submits it to **CPDL**.
 6. **CPDL** returns the results to **USER** in table form.

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Modules Affected By Scope

- N/A:

Report Additions

- **QUERY Reports:** **QUERY** Reports are reports generated by **USER**-supplied **QUERIES** that are displayed in table form on a Web page within the **REPORTING APPLICATION**.
 - Filtering / Retrieval Needs
 - Filter by **CLIENT** location
 - Filter by Date Submitted
 - Report Categories
 - N/A
- **Automated Reports:** Automated reports are scheduled reports generated from the results of automated **QUERIES** performed by data-mining agents. **USERS** may subscribe to automated reports and receive them by email in PDF form.
 - Description
 - Filtering / Retrieval Needs
 - N/A
 - Report Categories
 - N/A

Report Modifications

- N/A:

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User Security Additions

- **Submit QUERY:** This level of security ensures that any **QUERY** submitted to the **CPDL** is properly formatted and will not produce any malicious results.
 1. Check Access:
 - a. **USER** List: Check **QUERY** privileges for **USER** who is submitting the **QUERY**.
 2. Dependant Security:
 - a. N/A
 3. Additional Product Listing:
 - a. **EagleSoft**
 4. License Needed:
 - a. **nSite Central, EagleSoft**
 5. Default Value:
 - a. Disallow

Departments / Representatives

- **Development**
 1. Jim Garrett, Software Development & Quality Assurance Manager

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Approval & Sign Off

The undersigned members of the PTC Development Team agree upon this design and accept it in its entirety as a functional target.

Software Development & Quality Assurance Manager Date

Product Manager Date

DBA / Data Architect Date

Senior Quality Assurance Technician Date

Senior Software Engineer Date

Senior Software Engineer Date

Senior Software Engineer (optional) Date

Senior Software Engineer (optional) Date

