RAPTOR User Management Tech Guide

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# Overview

The production RAPTOR application will be integrated with the VA desktop windows user account, however details of the individual user capabilities are managed within the RAPTOR controlled metadata.

# Available User Attributes

Each RAPTOR site maintains its own list of valid RAPTOR users. All user accounts in RAPTOR have attributes that both control what that user account can do and how RAPTOR presents data to that user account; and in some circumstances also how that user account is listed for others to communicate with.

## User Identification and Categorization Attributes

The set of RAPTOR specific attributes described in Table 1 enable RAPTOR to display information to its users in a context optimized manner.

Table 1 - User Identification and Categorization Attributes

| ID | Attribute | Value Type | Description |
| --- | --- | --- | --- |
| UAN1 | User Account Name | Required Text | This must match the existing windows desktop user name. |
| URN1 | User Role Name | Required Keyword | This is a keyword that matches one of the defined roles in the RAPTOR system.   1. Site Administrator 2. Radiologist 3. Resident 4. Technologist 5. Scheduler |
| UNT1 | User Name Title | Optional Text | The title, if any, that should be displayed by RAPTOR in the user information area. (The first and last name are taken from the VA authentication system and this is simply prefixed onto that.) For example, if this value is “Dr” and VA system for the user has *John* for first name and *Almacean* for last name, then RAPTOR would display the user as follows: *Dr. John Almacean* |
| UNS1 | User Name Suffix | Optional Text | The suffix, if any, that should be displayed by RAPTOR in the user information area. (The first and last name are taken from the VA authentication system and this is simply suffixed onto that.) For example, if the title for the user is “Dr” and the suffix is “PhD” and the VA system for the user has *John* for first name and *Almacean* for last name, then RAPTOR would display the user as follows: *Dr. John Almacean PhD* |
| PEA1 | Preferred Email Address | Optional Text | The value provided here is utilized for email messages. |
| PCPN1 | Preferred Phone Number | Optional Text | The value provided here is the preferred contact phone number for this user. |
| GM1 | Group Membership | List of Codes | Can be a member of one, or any number of the following groups so that RAPTOR can organize worklist information more appropriately.   * R=Radiology * N=Nuclear Medicine * IR=Interventional Radiology |
| WMP1 | Weighted Modality Preferences | List of Keywords | Lists of modality keywords that affect the prioritization of worklist items as presented to the user. |
| WAP1 | Weighted Anatomy Preferences | Lists of Keywords | Lists of anatomy keywords that affect the prioritization of worklist items as presented to the user.  Note: There are three lists, the first list has greatest weight, second list has less weight, third has least weight. |
| SMKL1 | Specialist Modality Keyword List | List of Keywords | List of modalities the user specializes in so that RAPTOR can **present this user as a specialist** when listing specialists for a particular modality.  This list will be empty if the user is not considered a specialist in any particular modality. |
| SAKL1 | Specialist Anatomy Keyword List | List of Keywords | List of anatomy the user specializes in so that RAPTOR can **present this user as a specialist** when listing specialists for a particular anatomy.  This list will be empty if the user is not considered a specialist in any particular anatomy. |

## User Action Enabling Attributes

By default, all active RAPTOR users can view the worklist page. However, to do anything more, RAPTOR checks their account against the settings described in Table 2 and Table 3.

Table 2 - User Action Attributes

| ID | Attribute | Value Type | Description |
| --- | --- | --- | --- |
| AA1 | Account Active | Yes/No | Tells RAPTOR if this is an active user account. If not active, then user can no longer use RAPTOR. |
| CEUA1 | Allowed to create/edit other user accounts | Yes/No | Tells RAPTOR if the user can create user accounts and edit the attributes of existing RAPTOR accounts. |
| LACE1 | Resident account create/edit | Yes/No | Tells RAPTOR if the user can create/edit Resident role accounts. |
| SWI1 | Select worklist items for view | Yes/No | Tells RAPTOR if the user can select items from the worklist to view the details. |
| PWI1 | Protocol a worklist item | Yes/No | Tells RAPTOR if the user can select items from the worklist to set/edit the protocol details. |
| APWI1 | Approve a protocolled worklist item | Yes/No | Tells RAPTOR if the user can approve a protocolled worklist item. |
| SUWI1 | Suspend a worklist item | Yes/No | Tells RAPTOR if the user can suspend a worklist item. |
| CE1 | Complete an examination | Yes/No | Tells RAPTOR if the user can mark an examination as completed. |
| QA1 | QA a completed examination | Yes/No | Tells RAPTOR if the user can QA completed examination tickets. |
| SP1 | Schedule a procedure | Yes/No | Schedule an examination for a date/time and room |

Site-wide configuration settings are not expected to change often because they impact the behavior of RAPTOR for all users at that site. The available attributes are described in Table 3.

Table 3 - Site Configuration Action Attributes

| ID | Attribute | Value Type | Description |
| --- | --- | --- | --- |
| EBO1 | Edit RAPTOR site exam note boilerplate options | Yes/No | These are the static text snippets available for quick addition to a free-text notes field. Protocoller selects these boilerplate text snippets by button click and can edit them once placed into the notes field. |
| UNP1 | Upload new protocols to RAPTOR site protocol library | Yes/No | Protocols in library cannot be edited because may already be associated with an existing procedure in the system. |
| REP1 | Retire existing protocol from RAPTOR site protocol library | Yes/No | Protocols in library cannot be edited because may already be associated with an existing procedure in the system. |
| DRA1 | Define default and required attributes of Roles | Yes/No | Enables the user to edit the site specific default and required attribute values that are associated with each of the named roles. |
| ELCO1 | Edit list of contrast options | Yes/No | Enables the user to alter the list of contrast options available in the protocol page for the site. |
| ELHO1 | Edit list of hydration options | Yes/No | Enables the user to alter the list of list of hydration options available in the protocol page for the site. |
| ELSO1 | Edit list of sedation options | Yes/No | Enables the user to alter the list of sedation options available in the protocol page for the site. |
| ECIR1 | Edit contraindication results | Yes/No | Enables the user to alter some of the contraindication messages/behavior for the site. (Contraindication engine details are documented elsewhere.) |
| EERL1 | Edit list of examination rooms | Yes/No | Enables the user to alter the list of examination rooms available for scheduling at the site. |
| CUT1 | Create/Edit list of umbrella terms | Yes/No | Create/edit umbrella terms and the keywords associated with them. |

# User Role Concept

User roles in RAPTOR are a collection of attributes. The collection of attributes associated with a named role can be customized from site to site.

Table 4 - RAPTOR User Roles Concept

| Role Name | Concept Description |
| --- | --- |
| Scheduler | Responsible for scheduling procedures. |
| Technologist | Responsible for completing examinations for worklist items that already have an approved protocol. |
| Resident | Responsible for protocolling worklist items as per the direction of a supervising Radiologist. The Resident role may or may not have the authority to approve a protocol without review of a Radiologist depending on the site’s preference. |
| Radiologist | Responsible for protocolling worklist items and approving candidate protocolled worklist items. |
| Site Administrator | Responsible for administering site-wide configuration settings but not involved in the patient care and protocol process. |

Aspects of configuring a RAPTOR installation for a site that are not covered by the attributes described in this document fall into the domain of “system administration”. The “system administration” role is not a named role within the RAPTOR system software and generally requires special access to the hardware and or privileged access to the underlying operating system on which RAPTOR is deployed.

## Configuring Settings for Named Roles

An appropriately privileged user of RAPTOR (E.g., a Site Administrator with right DRA1) can configure the list of attributes (See tables 1 – 3) that are associated with a named role by declaring values for the fields shown in Table 5. If a named role does not have a declared attribute setting, then there is no specific value defined for that attribute for that role at the site.

Table 5 - Configuring Default Role Attribute Settings

| Field Name | Description |
| --- | --- |
| Role Name | The unique name of the role (e.g., Radiologist or Resident etc.) |
| Attribute ID | The unique ID of the attribute (E.g., APWI1 or PWI1 etc.) |
| Attribute Value | The value to associate with the attribute for the role. |
| Setting Type | The value of this field is either “REQUIRED” or “DEFAULT”. If this field has value “REQUIRED”, then the value declared for this attribute cannot be edited for this role. However, if the value of this field is “DEFAULT”, then the value declared for this attribute is simply the default value for the role but can be set differently for individual users. |

## Default Role Settings

Each RAPTOR site can configure the default settings for each of the named roles. For those sites that do not alter then baseline configuration, they will have the settings shown in the following tables.

Table 6 – Standard Radiologist Role Configuration

| Attribute | Setting Type | Value |
| --- | --- | --- |
| *Action Attributes* | | |
| AA1 | Default | No |
| CEUA1 | **Required** | No |
| LACE1 | Default | **Yes** |
| SWI1 | **Required** | **Yes** |
| PWI1 | **Required** | **Yes** |
| APWI1 | Default | **Yes** |
| SUWI1 | Default | No |
| CE1 | Default | No |
| QA1 | Default | **Yes** |
| SP1 | Default | **Yes** |
| *Site Configuration Action Attributes* | | |
| EBO1 | Default | No |
| UNP1 | Default | No |
| REP1 | Default | No |
| DRA1 | Default | No |
| ELCO1 | Default | No |
| ELHO1 | Default | No |
| ELSO1 | Default | No |
| ECIR1 | Default | No |
| EERL1 | Default | No |
| CUT1 | Default | No |

Table – Standard Resident Role Configuration

| Attribute | Setting Type | Value |
| --- | --- | --- |
| *Action Attributes* | | |
| AA1 | **Required** | No |
| CEUA1 | **Required** | No |
| LACE1 | **Required** | No |
| SWI1 | **Required** | **Yes** |
| PWI1 | **Required** | **Yes** |
| APWI1 | Default | No |
| SUWI1 | **Required** | No |
| CE1 | Default | No |
| QA1 | Default | No |
| SP1 | Default | **Yes** |
| *Site Configuration Action Attributes* | | |
| EBO1 | Default | No |
| UNP1 | Default | No |
| REP1 | Default | No |
| DRA1 | Default | No |
| ELCO1 | Default | No |
| ELHO1 | Default | No |
| ELSO1 | Default | No |
| ECIR1 | Default | No |
| EERL1 | Default | No |
| CUT1 | Default | No |

Table – Standard Technologist Role Configuration

| Attribute | Setting Type | Value |
| --- | --- | --- |
| *Action Attributes* | | |
| AA1 | **Required** | No |
| CEUA1 | **Required** | No |
| LACE1 | **Required** | No |
| SWI1 | **Required** | **Yes** |
| PWI1 | **Required** | No |
| APWI1 | Default | No |
| SUWI1 | **Required** | No |
| CE1 | **Required** | **Yes** |
| QA1 | Default | No |
| SP1 | Default | **Yes** |
| *Site Configuration Action Attributes* | | |
| EBO1 | Default | No |
| UNP1 | Default | No |
| REP1 | Default | No |
| DRA1 | Default | No |
| ELCO1 | Default | No |
| ELHO1 | Default | No |
| ELSO1 | Default | No |
| ECIR1 | Default | No |
| EERL1 | Default | No |
| CUT1 | Default | No |

Table – Standard Scheduler Role Configuration

| Attribute | Setting Type | Value |
| --- | --- | --- |
| *Action Attributes* | | |
| AA1 | **Required** | No |
| CEUA1 | **Required** | No |
| LACE1 | **Required** | No |
| SWI1 | Default | No |
| PWI1 | **Required** | No |
| APWI1 | **Required** | No |
| SUWI1 | **Required** | No |
| CE1 | **Required** | No |
| QA1 | **Required** | No |
| SP1 | Default | No |
| *Site Configuration Action Attributes* | | |
| EBO1 | **Required** | No |
| UNP1 | **Required** | No |
| REP1 | **Required** | No |
| DRA1 | **Required** | No |
| ELCO1 | **Required** | No |
| ELHO1 | **Required** | No |
| ELSO1 | **Required** | No |
| ECIR1 | **Required** | No |
| EERL1 | Default | **Yes** |
| CUT1 | Default | No |

Table – Standard Site Administrator Role Configuration

| Attribute | Setting Type | Value |
| --- | --- | --- |
| *Action Attributes* | | |
| AA1 | **Required** | **Yes** |
| CEUA1 | **Required** | **Yes** |
| LACE1 | **Required** | No |
| SWI1 | **Required** | No |
| PWI1 | **Required** | No |
| APWI1 | **Required** | No |
| SUWI1 | **Required** | No |
| CE1 | **Required** | No |
| QA1 | **Required** | No |
| SP1 | Default | **Yes** |
| *Site Configuration Action Attributes* | | |
| EBO1 | Default | **Yes** |
| UNP1 | Default | **Yes** |
| REP1 | Default | **Yes** |
| DRA1 | **Required** | **Yes** |
| ELCO1 | Default | **Yes** |
| ELHO1 | Default | **Yes** |
| ELSO1 | Default | **Yes** |
| ECIR1 | Default | **Yes** |
| EERL1 | Default | **Yes** |
| CUT1 | Default | **Yes** |

# Umbrella Terms

The default configuration of RAPTOR supports the umbrella terms show in Table 1 which are available for users as an alternative to keying in each literal term directly into their keyword lists.

Table 11 - Configuring Default Role Attribute Settings

| Umbrella Term | Description |
| --- | --- |
| Women’s Imagin | ??? |
| Renal | ??? |
| Biatic | ??? |
|  |  |

# Integration with VA Authentication

Integration with existing VA authentication systems is not in scope. However, the development team will make an effort to work with the VA for RAPTOR to receive the windows user ID of the person logged into the desktop. That value then becomes the key value for locating the user record in the Drupal user record. (Details TBD.)

## Local Storage of RAPTOR User Attributes

The managed attributes shown in this document will be stored in the RAPTOR database. The key field is the Windows user ID string. (Details TBD.)

## Login and Timeout

If required by the SOW, then the RAPTOR session will timeout independently of the desktop session and may require a password login separate from existing CPRS/VISTA/Desktop logins. These additional logins will make the system more cumbersome to use and the VA should consider allowing “single-sign-on” behavior once the user has authenticated at the desktop. (Details TBD.)

# Revision History

|  |  |  |
| --- | --- | --- |
| When | Who | What |
| 20140308 | FJF | Initial draft |
| 20140310 | FJF | Small updates during conference call. Also created “CUT1”. |
|  |  |  |