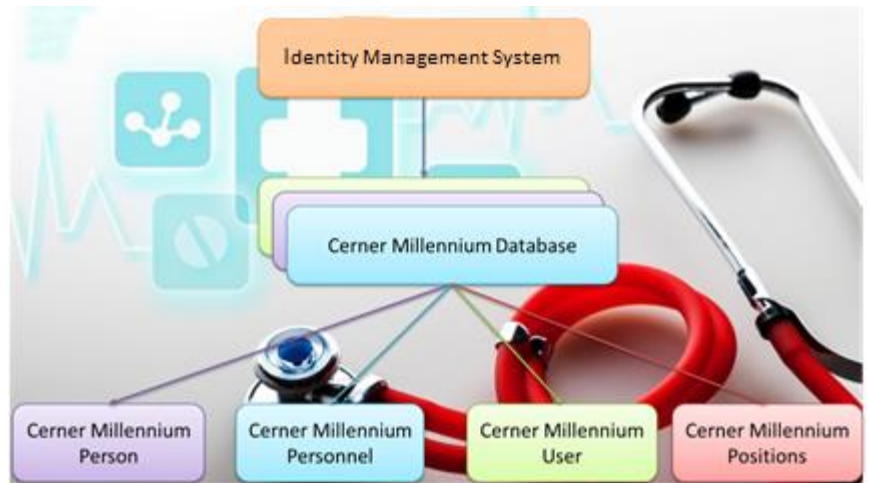


Overview

Cerner is recognized in the healthcare industry for its innovations and ability to securely share data between disparate systems and venues. The solutions offered by Cerner have enabled clinical health information to be available when and where it's needed most. Furthermore, Healthcare Applications offered by Cerner unified suite of digital solutions to streamline administration, reduce costs and enhance patient privacy.

There is a greater need to enable interaction between such applications and provisioning system to fall in line with Identity Management and Access Governance guidelines. Cerner's solutions enable physicians, nurses and other authorized users to share data and streamline processes across various departments within healthcare establishments.



Key Features of Avancer's Cerner IdM Connector

- 1. Timely and Accurate User Provisioning**
 - Manage complete identity lifecycle for users
 - Facilitates Multiple Accounts Provisioning
 - Reconciliation of multiple accounts for one user
 - Enable Cerner's primary account provisioning with AD Authentication capability
- 2. Synchronized Password Management for all Accounts**
- 3. Establish Personnel, Organization & Organizational Groups Relationship and Positions Entitlement Provisioning**
- 4. Secures User Access through Recertification**
- 5. Concurrently Write User Records to one or more Domains**

Cerner
Provisioning
Connector

Benefits for administrators and end-users

- **Takes down Costs & Risk:** Stores Identity information in a single, external source reducing maintenance & auditing requirements.
- **Increased Efficiency:** Automation of provisioning process that ties to existing provisioning systems resulting in accurate provisioning.
- **Enhanced Security:** The Provisioning functionality helps an administrator to deactivate user's record from all associated domains.

Integrating Cerner with IAM Solutions

The IdM Provisioning Enterprise Application Connector caters to all Identity Management needs such as streamlining IdM processes. It automates just-in-time communication between Cerner's Healthcare IT Solutions and any IdM System. The application integrator also enables bi-directional user profile synchronization, provisioning, and de-provisioning of accounts on Cerner into various positions on enterprise server. Furthermore, it paves way for management of groups and multiple accounts possessed by one user that are to be authenticated for different data sources.

Supported Functions of IdM Connector

Avancer Cerner Millennium IdM connector supports nine primary provisioning functions: Create User, Modify User, Delete User, Enable User, Disable User, Reconcile Users etc. Each of these functions can be performed singularly or, depending on the operation, in a batch mode. A brief description of each function follows: -

Functions	Details
Create New User	Automated creation of a new user account on Cerner Application to provision the user. Ability to create multiple accounts.
Disable Existing User	Temporarily disable a user account on the Cerner Application
Enable User	Re-enable a disabled user account on the Cerner Application
Delete User	Delete a user account on Cerner Application to revoke the user's account
Update User	Modify privileges or profile of users' account on the Cerner Application
Password Management	Actively support tasks to manage, change and/or generate passwords
Reconciliation	Reconciliation of users, positions, organization received from the target system.
Certifications	Undertake certification related actions for credentials, positions & other information
Provisioning Requests	Facilitate processing provisioning requests from a trusted software client
Assign/Remove Positions	Assign and Remove positions as a role to a user in Cerner. Governed through Job Responsibilities
Assign/Remove Organization & Organizational Groups	Assign and Remove organization and organizational groups to a user in Cerner.

Examples of Cerner Provisioning IdM Connector on an Identity Management system

The screenshot displays the user management interface for Nancy Smith. At the top, there are action buttons: Modify User, Enable User, Disable User, Lock Account, Unlock Account, and Reset Password. Below these are tabs for Attributes, Roles, Entitlements, Accounts, Direct Reports, Organizations, and Admin Roles. A table lists application instances with columns for Row, Application Instance, Resource, Account Name, Provisioned On, Account Type, Request ID, and Status. The selected row is for the Cerner Millennium application.

The 'Detail Information' section for the Cerner Millennium account shows the following fields:

- OIDM User Id: NSMITH
- Proxy Number
- First Name: Nancy
- MSOW Number
- Middle Name
- Password: *****
- Last Name: Smith
- Begin Effective Date
- Email
- End Effective Date
- Suffix
- Service Account: x
- Location

The 'Cerner Organization' section includes a table with columns for Organization ID, Organization Name, Confidentiality Level, End Date, and Organization ToPsoID. The table contains three rows of organizational data.

Below the organization table, there is another 'Detail Information' section for the Cerner Millennium account, which is identical to the one above. At the bottom, the 'Cerner Position' section shows a table with columns for Position Code and Position Description, with one row: CERNER-ESM-POS and ESM-POS.

Interaction with Cerner Millennium tables

During the provisioning process, Avancer Cerner Millennium IdM connector writes to and reads from the following tables:

Table	Information Contained
PERSON	Contains all persons in the system.
PRSNL	Contains the subset of persons who are classified as personnel.
PERSON_NAME	Contains the current and historical names for a person of a given type.
PRSNL_ALIAS	Contains information to identify personnel in the system.
CREDENTIAL	Contains credentials assigned to personnel.
PRSNL_ORG_RELTN	Contains the relationship between personnel and organizations.
PRSNL_GROUP_RELTN	Contains the relationship between personnel and groups.

System Requirements and Supported Platforms

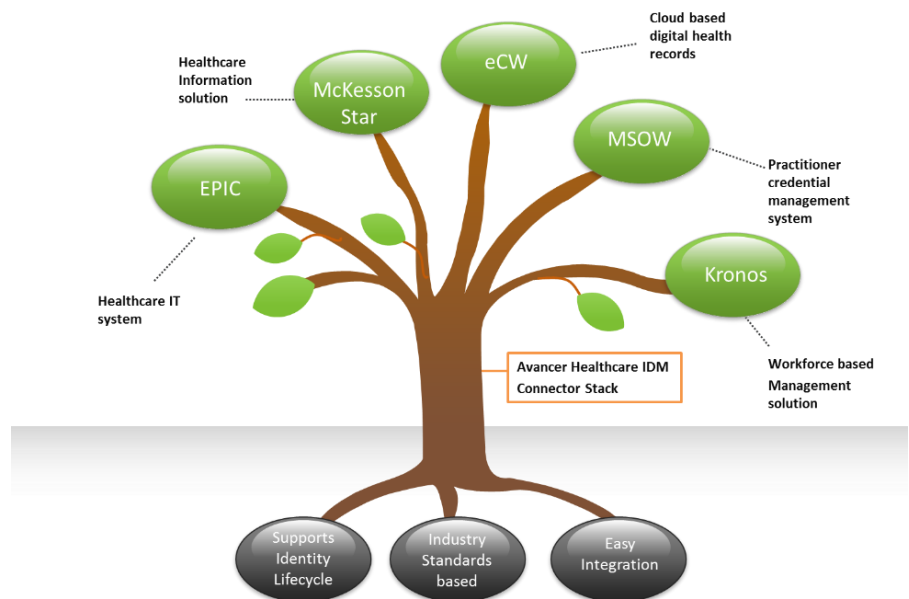
- Windows 2008-2012/ Linux UNIX 64 bit
- Java JDK above version 1.6 (+), Any Identity Management System with Web Service capabilities
- Cerner Millennium Production Release 2007.02 or later
- Can co-exist with any Cerner Solution

Pre-Built Avancer's IDM connectors For Healthcare Industry

Avancer Corporation has developed healthcare industry specific IDM connectors for various healthcare specific applications to fully integrate IDM provisioning solutions.

Avancer's product and IT Security team come together to meet critical success factors, such as:

- Breadth and depth of industry knowledge and technical experience
- Ability to team with management, implementation professionals and internal audit personnel
- Consistent, modular, and easy-to-use methodology
- Focus on learning, knowledge transfer and training



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ABOUT AVANCER CORPORATION

Founded in 2004, it has over a decade's expertise in the field of Identity and Access Governance, IT Security and Big Data Management. With a depth of experience in end-to-end IT Security Solutions, Avancer has evolved as a specialist in integrating enterprise IT security through a range of solutions, products and services focused in IAM Technology. Our services ranges from full term project life-cycle implementation to tailor made short-haul projects including software procurement, architectural advisement, design and development through deployment, administration, and training. Avancer's goal is not simply to deliver end-to-end solutions, but to create optimal IT Systems for our clients by implementing a development process that is understandable and repeatable.

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