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Database Application Accounts Password Rotation

Using ICMS for DB Passwords Management

Landis+Gyr recognizes the need for customers to perform periodic changes to account credentials used by applications to access database information.

Many packages published with Emerge 2.0 now provide a component that allows updating the database connection string on each server without re-installing the application component.

These components will be listed in their respective package as:

<ComponentApp>UpdateCSonly

or

<ComponentApp>UpdateConnectionStringOnly

CAUTION: If a component uses a database application account and does not support this procedure for DB application password rotation, consult the component's own ICMS Add-On document for details related to DB application password changes.

DB Password Rotation Procedure

To proceed with a database application password rotation, Landis+Gyr recommends initiating a Emerge downtime to execute the following procedure:

1. From CIN UI, create a profile **UpdateDBAppPasswords** that contains all the components that allow changes to DB connection string from all packages in use within the Organization. This step can be performed before the Emerge downtime.

2. Update all DB related passwords on the **App Databases** tab of the **CIN UI** and save changes.This step can be performed before the Emerge downtime.

3. Quiesce all Windows servers, from the **CIN UI**, apply a **StopAll** profile that contains `StopAll` component, to all Windows servers.

4. Perform the desired password changes in the Database, for all DB application accounts, using same passwords as updated in Step 2 above.

5. Using the **CIN UI**, apply the **UpdateDBAppPasswords** profile to all Windows server. Each component will scan the `machine.config` file and update its respective credentials only if the DB application account is found in the file. The `machine.config` file will automatically be re-encrypted after the operation is completed.

6. If some packages in use within this Organization do NOT have the component to update the connection string from the **CIN UI**, proceed with manual changes to the connection string on all servers where these components are installed.

7. Using the **CIN UI**, proceed to remove the **StopAll** profile from all Windows servers.

(i) **NOTE:** Landis+Gyr can provide the detailed procedure to manually change DB application account passwords in the connection string of the `machine.config` on Windows servers. Consult your Landis+Gyr representative for details.