

# **Field-oriented Optimized service**



#### What does it do?

RMS is a system designed to provide integrated management of equipment recipes and parameters, which are fundamental to product production and processing. It helps prevent major quality incidents by avoiding recipe misapplication (caused by operator or engineer errors) and automatically manages recipe change histories and compares parameter specifications within the system.

By centralizing the management of recipes and parameters, RMS acts as a solution to prevent accidents caused by faulty processes or incorrect recipes.

# Minimize! Easy Working!

Good UX Validation History Management Spec Management



#### Fast and secure Vue.js framework

 Built on the Vue.js (JavaScript Framework), this system serves as a flexible, scalable framework designed to handle common functionalities. Its architecture supports incremental adoption and gradual development.

#### **Cloud aimPlatform service**

- The R&D Center focuses on applying webbased technologies to keep pace with the rapid evolution and release of IT technologies and devices.
- Through research into key IT technologies, the aim Cloud-based platform is designed to enable enhanced functionality and improved productivity.

# Configuration management / deployment

 Supports version changes by reviewing and confirming changes to source files, documents, and components through fundamental principles, strategies, and technologies used to ensure convenient development and maintain the environment.

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# Convenient work environment that maximizes operator efficiency



#### Minimizing large volumes of repetitive tasks

- Supports multi-input, edit, and delete functions to reduce repetitive tasks.
- Supports bulk data upload and download.
- The auto-complete feature quickly completes the user's intended search term, saving time by suggesting expected search terms generated through the automated system.



#### **Convenient service features**

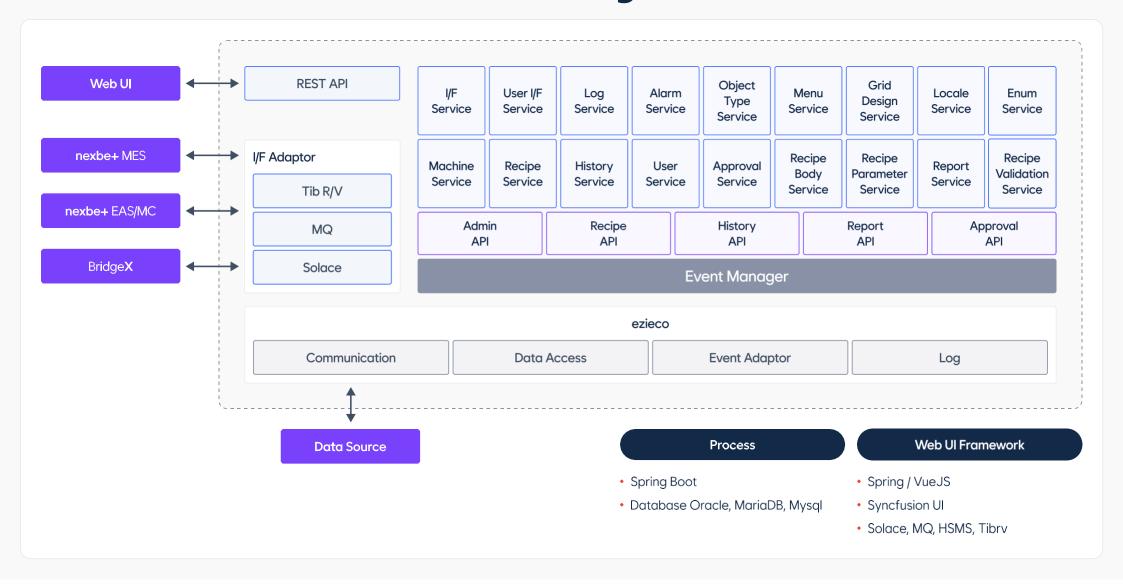
- Easily locate desired menus with intuitive navigation
- Ideal for quick document creation and management tasks.
- Allows users to review relevant data history.
- Facilitates smooth transitions to subsequent tasks with related menu options.



#### **Validation Runtime**

- Select the elements to review when modifying Spec information.
  Spec validation can be checked by ObjectType.
- Prevent process incidents in advance through custom functions during data creation, modification, or deletion.
- Includes run-time features (synchronization of data and servers).

## **Product Configuration**



# **Field-oriented Optimized service**

on nexbe+ RMS

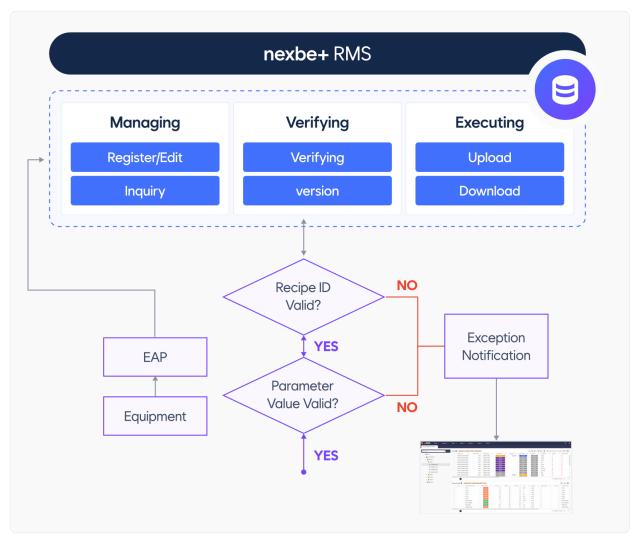
#### nexbe+RMS

• Acts as a solution to prevent accidents caused by faulty processes or incorrect recipes by centralizing the management of recipes and parameters.

#### **Key Features**

- Centralized recipe/parameter management
- Recipe version management (remote and manual)
- Recipe comparison
- · Validation of setting parameters within the equipment
- Intuitive Editor interface for comprehensive recipe parameter management
- Workflow integration for enhanced internal logic processing

(refers to client-specific special business logic)



#### **Centralized recipe management**

- Golden recipe management
- Recipe download and check
- Recipe status management
- Recipe archive

#### Parameter management

- Parameter-based recipe
- management
- Full parameter viewer support
- Parameter specification support (UCL,LCL) Equipment constant (EC) management

#### Recipe editor & viewer

- Universal recipe editing
- Editing for all types of recipes Excel Import/Export support for recipe components

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#### **Recipe operational procedures**

- ✓ Step1 : Create a new version of the recipe
- √ Step2 : Proceed with approval (authorization)
- √ Step3 : Activate the recipe (Active)
  - Recipe for use in mass-production equipment
- ✓ Step4 : Change the recipe to a "Hold" status as needed (administrator-controlled)
- ✓ Step5: Upon version updates, the status of the existing recipe is automatically converted.

Once the status changes from Active to Inactive, the recipe cannot be used.



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#### **Recipe version control**

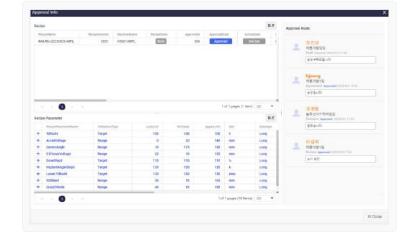
#### 1. Revision & Version control

- Version status management Unlock / Lock(Inactive) / Active
- Maintain a single active version of the recipe
- Prevent deletion of active versions
- Multi-recipe version management
- Prevent overlapping changes (Check In/Check Out)
- Record all changes with date/time stamps and maintain a detailed history

#### 2. Recipe change Management

- Recipe check-in/check-out functions
- Define access levels for each equipment and recipe
- Recipe change approval system
- Change history management

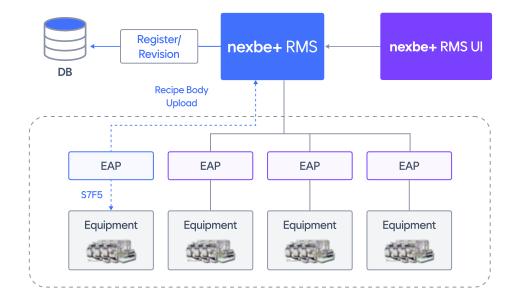






#### **Recipe creation (Upload)**

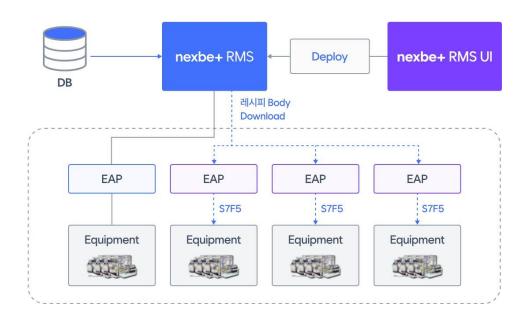
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#### Recipe creation: Upload-based registration

- Upload equipment recipe components to the **nexbe+** RMS system for registration
- \* Supports various recipe structures for In-Line Equipment Recipes, including multi-part recipes and shared sub-recipes
- Incorporates an approval process for recipe creation or change (to approve and notify changes or anomalies)

#### 06 Recipe deployment(Download)

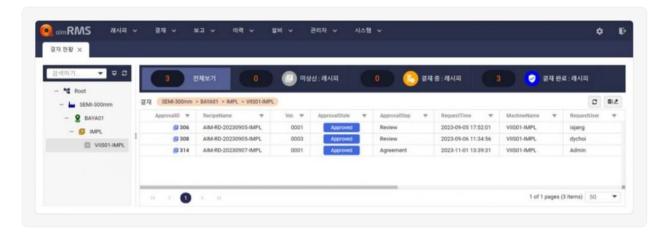


#### **Recipe deployment: Download**

- nexbe+ RMS allows recipe data to be downloaded to equipment based on user-defined deployment rules or batch jobs.
- nexbe+ RMS allows users to download one or more recipes to one or more equipment.

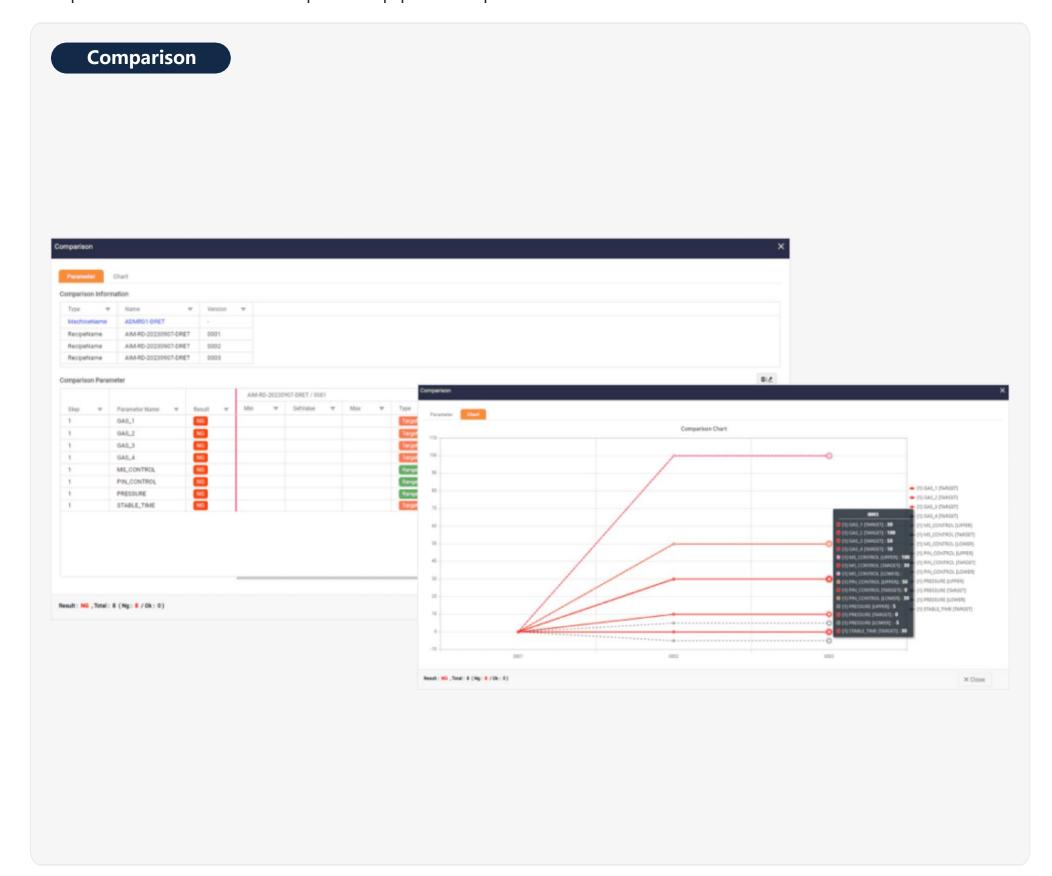
### 07 Recipe authentication

- Recipes are authenticated following the designated approval process and approvers.
- Only recipes approved through final authentication are automatically transitioned: Inactive → Active
- Unauthorized recipes cannot be downloaded → this prevents misapplication



#### 08 Recipe comparison and validation

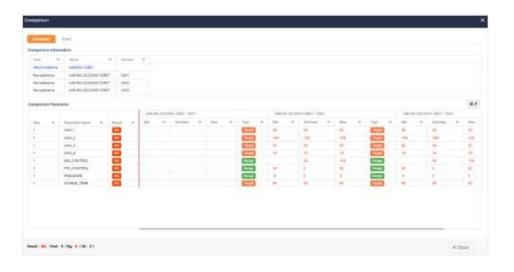
- Unique identifiers for recipes and recipe parameters
- Recipe validation between RMS Recipes and Equipment Recipes



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#### **Cross-comparison of recipes**

#### **Cross-comparison of recipes: Equal & Different**

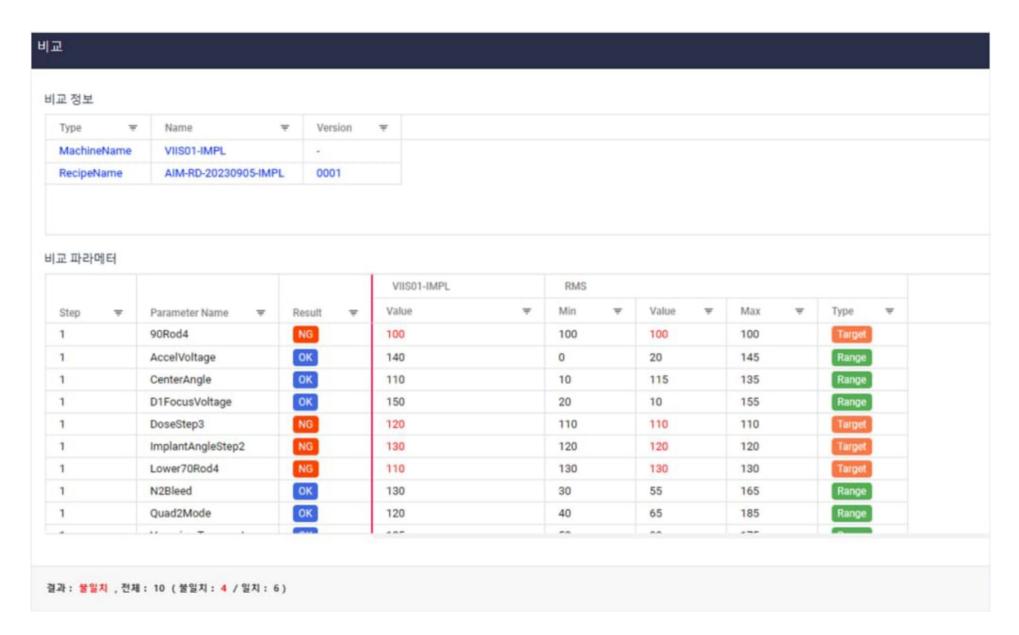


#### **Cross-comparison of recipes (View Type): Chart**



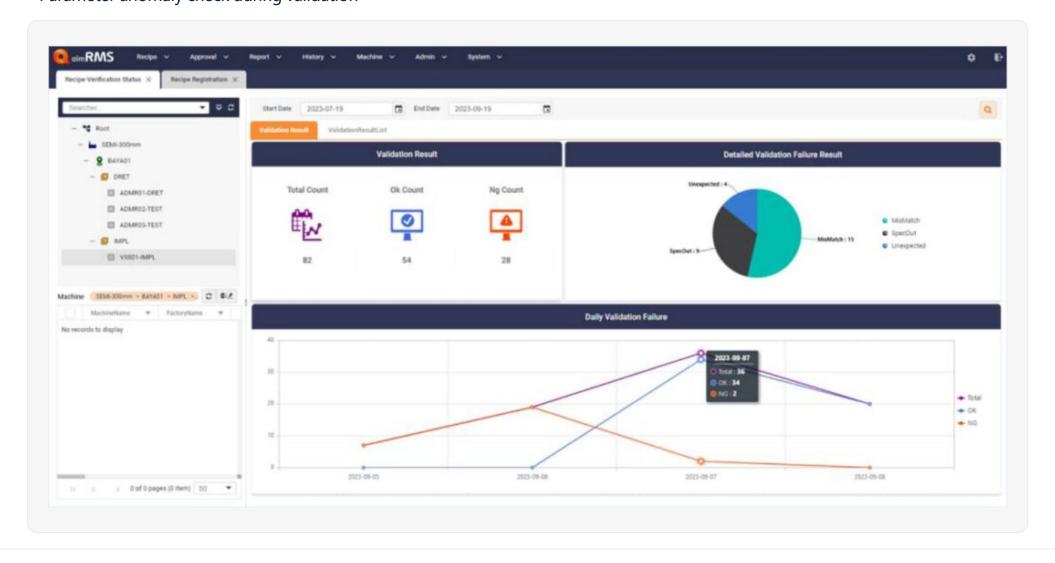
#### 10 Recipe validation

RMS Version VS Equipment Current Parameter



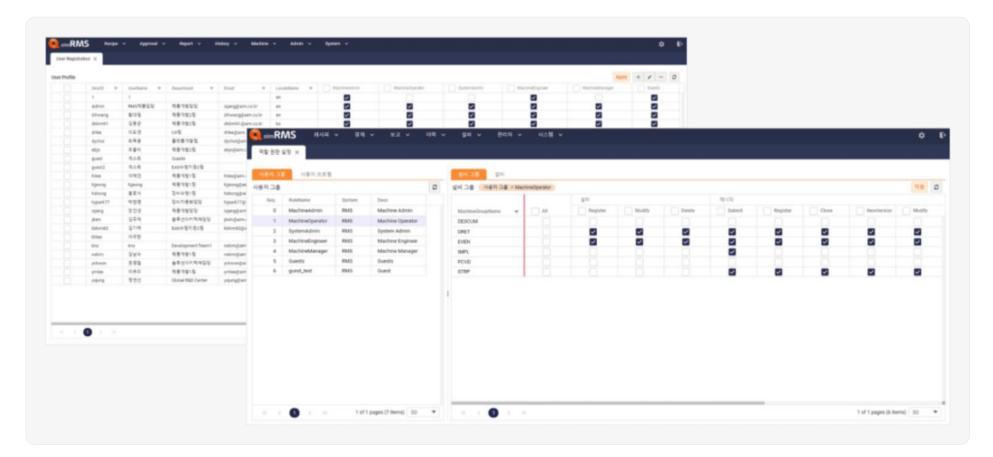
### 11 Recipe validation history

- View validation history for target equipment recipes within a specific period
- Parameter anomaly check during validation



#### 12 Security and access control

- Configure access levels for each user group
- Configure tailored screen layouts and user interfaces based on user groups
- Define access permissions for equipment groups and recipes



#### **User registration management**



#### **User permission management**

