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**EN-52: Understanding Users**

- To increase engineering productivity and provide consistency when creating station databases, Vykon HVAC automatically creates a number of user accounts that may be used 'out-of-the-box' because they are pre-configured with passwords and permissions appropriate to their business function. This engineering note looks at these pre-configured users, how to manage them, what they can and cannot do and how to add new users.
- In addition to the 'standard' NiagaraAX Framework® 'admin' and 'guest' user accounts, Vykon HVAC adds seven users which cater for a complete range of building management monitoring and control tasks. Five of these are specifically aimed at the "end user". Two are included specifically for the integration partner to assist in remote access support. The full list of users is:

**NiagaraAX users:**

- **admin** This is the standard NiagaraAX super user account with permissions to get anywhere in the station. This user is always enabled by default with a known default password. 'admin' cannot be deleted.
- **guest** This is the standard NiagaraAX guest user account which is always created in every NiagaraAX station. It is **not used and not configured** in Vykon HVAC, it has no permissions, it is not enabled by default but it also cannot be deleted.)

**Vykon HVAC "end users":**

- **systemAdministration** This user would not be HVAC fluent but would maintain user accounts and other information technology (IT) related configurations. The 'systemAdministration' user is enabled by default with a known default password.
- **expert** The engineering responsibility for all controls aspects of the building HVAC controls. The 'expert' user has permissions for full control of the configuration, linking and settings for each of the applications.
- **manager** Takes responsibility for the day-to-day running of the BMS system, the 'manager' user can alter the settings of the applications but cannot change strategies or the configuration.
- **visitor** A user who can just view the HVAC applications, histories and settings. No intervention is available.
- **user** A user who can view the current state of all the installation controls and make manual override changes to the plant equipment. This user has no access to the settings.

**Vykon HVAC "Integrator support users":**

- **support** The 'support' user is intended to allow remote service access by the integrator as part of a support service business. The 'systemAdministrator' controls enable and password of the 'support' user. Full 'super user' permission is provided.
- **workbench** The workbench user is intended to provide a NiagaraAX Framework® Workbench via a browser. This is particularly useful to the support integration company as it requires no NiagaraAX Framework® license on the browsing PC but nevertheless gives full workbench privileges in the running station. Unlike the full PC Workbench, this user can access the station but not the JACE Platform.

## User privileges

Figure 1 summarises the privileges of each user:

Privileges	Users								
	admin	workbench	support	systemAdmin	expert	manager	user	visitor	guest
Browser Workbench	x	✓	x	x	x	x	x	x	x
Create new I/O Strategy	✓	✓	✓	x	x	x	x	x	x
Configuration Linking	✓	✓	✓	x	✓	x	x	x	x
System administration	✓	✓	✓	✓	✓	x	x	x	x
Settings Hours run preset	✓	✓	✓	x	✓	✓	x	x	x
Manual override View & Acknowledge Alarms	✓	✓	✓	x	✓	✓	✓	x	x
Views Reduced 'General' Hours run (View Only) Settings (View Only) Help Histories	✓ <sup>1</sup>	✓ <sup>1</sup>	✓ <sup>1</sup>	x	✓ <sup>1</sup>	✓	✓ <sup>2</sup>	✓	x
Unsupported user	x	x	x	x	x	x	x	x	✓

<sup>1</sup> Full 'General' navigation available  
<sup>2</sup> Hours run and Settings are unavailable

**Figure 1: User privileges**

### The default condition

The default users and their passwords are illustrated in Figure 2. Notice how only two users are enabled by default:

User Manager							9 objects
Name	Full Name	Enabled	Expiration	Network User	Prototype Name	La	Pr
admin		true	Never	false			
guest	Guest account (Niagara special account)	false	Never	false			
support	Product Support account (Do not delete!)	false	Never	true			
manager	Building manager account	false	Never	true			
expert	HVAC expert account	false	Never	true			
user	User account (enviromental settings only)	false	Never	true			
systemAdmin	System administrator account	true	Never	false			
workbench	Online engineering tool	false	Never	false			
visitor	Guest account (read permissions only)	false	Never	true	visitor		

**Tip:** You are strongly advised to change these passwords from the default before handing over the project

User	Default password
admin	<no password>
guest	guest
support	support
manager	manager
expert	expert
user	user
systemAdmin	systemAdmin
workbench	workbench
visitor	visitor

**Figure 2: The default enabled users**

### Creating a new user

You can consider the user accounts as a set of templates when creating one, two or more extra users. It is important to note that the 'login' credentials will always only look for 'Name' and 'Password'. The 'Full Name' property is not used in the login credential check but it is provided for information and reference. If you need to create a new user, the easiest method is to first select one of the existing users, preferably one which best matches the profile of the new user, then copy and paste it with a new 'Name' and 'Password'. Unless you need to change the new user privileges, the new user will be immediately available. Figure 3 illustrates this process:

**Figure 3: Creating a new user**

