

Introducing Natural SAF Security

This section provides an overview of Natural SAF Security. It covers the following topics:

- What is Natural SAF Security?
 - Natural Security Related Considerations
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What is Natural SAF Security?

Natural SAF Security is an add-on product to Natural Security. It allows you to protect your Natural applications and control the access to Natural sessions using resources defined in an external security system. With Natural SAF Security, you can protect your Natural sessions by combining security definitions made in Natural Security and in the external security system.

This external security system must be an SAF-compliant security system. At present, Natural SAF Security supports the following external security systems:

- RACF,
- CA-ACF2,
- CA Top Secret.

With Natural SAF Security, it is no longer necessary to define security profiles for individual users in Natural Security. Instead, existing user definitions made in the external security system can be used.

When you use Natural SAF Security, you need not define users both in Natural Security and in an external security system; it is sufficient to define them in the external security system. You only need to define user **groups** in Natural Security. When Natural SAF Security is active and a user logs on to Natural, the user authorization checks will be done using the user ID and user password from the external security system.

The group ID from the external security system is passed to Natural Security, and will be used for further security checks, particularly concerning the use of Natural libraries and utilities. Although library protection via an external security system is possible, the Natural Security library security profiles provide more sophisticated and more adequate mechanisms for protecting Natural libraries.

In addition, the protection of Natural can be made environment-specific. A Natural environment is determined by the combination of the system files FNAT, FUSER, FSEC and FDIC. You can define a profile for each system-file combination and control users' access to it. Thus it is possible to fully separate the protection of a Natural development environment from that of a Natural production environment.

Moreover, Natural SAF Security allows you to protect user-defined resources which are defined in the external security system against unauthorized use.

Natural SAF Security also provides Natural RPC protection: With Natural Security, certain RPC options can be set in library profiles, thus making the use of Natural RPC functions dependent on the library from which they are invoked. Natural SAF Security, on the other hand, allows you to protect Natural RPC services (that is, Natural subprograms invoked remote via Natural RPC) as such against unauthorized use.

The generation of end of transaction IDs (ETIDs) can also be controlled via Natural SAF Security.

Natural Security Related Considerations

The following Natural Security items should be considered when using Natural SAF Security.

Automatic Logon

If the Natural profile parameter AUTO=ON (Automatic Logon) is set, a user can only log on to Natural if a default library is defined for him/her. The default library can be defined either in the Natural Security group security profile or in the external security system. See also the section Automatic Logon in the Natural Security documentation.

PROFILE Command

When Natural SAF Security is active, the Natural system command PROFILE indicates whether the user and his/her group are defined in Natural Security:

- If neither the current user ID nor group ID are defined in Natural Security, the user type will be shown as "Ext. User".
- If the current user ID is not defined in Natural Security, but the current group ID is defined in Natural Security, the user type will be shown as "Ext. User/Grp".

Library SYSSEC

The library SYSSEC can only be accessed by users who are defined as "Administrators" in Natural Security.

Transition Period Logon

If the Natural Security general option Transition Period Logon is set to "N", only unprotected libraries can be accessed via Natural SAF Security. Undefined libraries can only be accessed if Transition Period Logon is set to "Y".

Utilities

For users for whom neither a user security profile nor a group security profile exists in Natural Security, the default utility profiles apply.

For users for whom no user security profile, but a group security profile exists, the use of utilities is controlled by the group-library-specific utility profiles and group-specific utility profiles associated with this group.