



IRISnGEN Enhanced Authentication

Providing Safe, Secure and Simple Access to Critical Resources

IRISnGEN capabilities include utilizing two-factor strong authentication to provide a secure means of user identification and authorization for remote access to SEB NET-PATH units. This technology uses a secure encrypted (3DES) challenge/response method which is considered almost impossible to circumvent. Two-factor authentication is based on “what you know,” for example a password or PIN, and “what you have,” typically a physical device known as a personal authentication device or token. Without both, access is not possible. When contacted, the SEB NET-PATH with Enhanced Authentication will issue a challenge code to the user attempting to gain access. This code is entered into a hand-held or software token device “what you have” that will generate a single-use password or response. This password, even if detected and decrypted, is unusable for future sessions. The hand-held or software device is not activated without the user’s PIN “what you know.”

Soft token technology features in IRISnGEN automate the enhanced authentication process when using IRISnGEN’s Remote Agent Manager to access SEB NET-PATH units that are configured to use Enhanced Authentication. The SEB NET-PATH challenge is received by IRISnGEN and a single-use response code is generated automatically without user intervention. Since the authentication is transparent to the user, existing procedures for managing the SEB NET-PATH and connected Hosts do not change, yet the potential for unauthorized access is eliminated.

Strong authentication is used when accessing the SEB NET-PATH in the following manner:

- Dial-up access from IRISnGEN system
- Network access from IRISnGEN system
- Remote access using:



- Dial-up “Networking” (DUN) using Point-to-Point Protocol (PPP) and MedTel Services Extensible Authentication Protocol module (EAP) provided with Enhanced Authentication
- Remote access using a LAN/WAN
- Non-protocol dial-up using programs such as Procomm or Hyperterm
- Terminal access via a serial port

Enhanced Authentication is offered as an add-on module for IRISnGEN and as a licensed feature within the SEB NET-PATH unit. The Vacman API from VASCO Data Security International, Inc. and Vasco soft tokens (DP50), are used by IRISnGEN to provide secure two-factor authentication when accessing the SEB NET-PATH from IRISnGEN. Soft tokens are provided by MedTel Services as part of the Enhanced Authentication module.



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Digipass Pro 300 hardware and DP5 Windows software tokens are produced by Vasco and may be purchased from MedTel Services or directly from Vasco.

The Digipass Pro 300 and the Windows DP50 software token are enabled by entering a PIN. During the login process, a challenge is issued by the SEB NET-PATH unit. This challenge, when entered into the Digipass Pro 300 or software token, produces a response code that is used to complete the login process. The PIN challenge and response code lengths are user selectable for the best possible combination of security and convenience. Repeated PIN login failures cause the token to enter a locked state. To enable operation again, the IRISnGEN system must unlock the Digipass Pro 300 or DP50 Windows token.

Users may choose to implement Enhanced Authentication on some or all SEB NET-PATH units. This is executed by downloading new license keys to the SEB NET-PATH units used in applications where additional security is considered essential.

Enhanced authentication is highly integrated with IRISnGEN to easily manage the security profile changes that are necessary when personnel join or leave the company or when responsibilities change. Any time system tokens are added, removed, or modified in the IRISnGEN system, all applicable SEB NET-PATH database files stored in IRISnGEN are marked for subsequent download. This function is greatly simplified by the Automated Site Management function of IRISnGEN.



Digipass Pro 300 Token

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