

## TRACKER 2720 / 2730 SECURE MODEMS



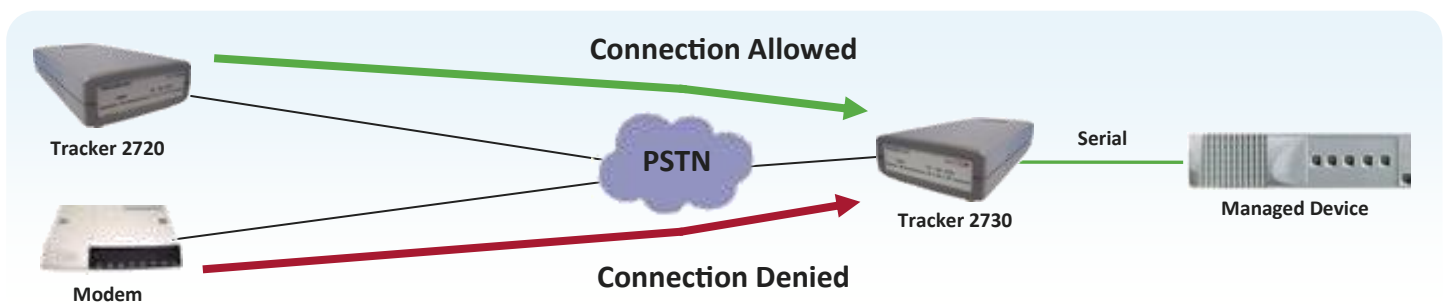
- Secure dial-up access
- Two-factor authentication
- Easily integrate with existing systems
- No special software needed



The Tracker 2720 'Key' and 2730 'Lock' provide secure access to a remote serial device over a standard dial-up connection. An encrypted secret and the AES authentication algorithm are used to provide a unique challenge/response to incoming calls. (Note that the Tracker 2740, and 2750 devices can also be used as 'Locks,' particularly where a PPP session is necessary over the dial-up connection.) The AES algorithm has been tested and security approved by the NSA for use by the US Department of Defense. **The Tracker devices themselves have received Information Assurance Accreditation from the US Defense Information System Network (DISN) Security Accreditation Working Group.**

### THE PROBLEM

Providing a standard modem to access a remote managed device can raise serious security concerns, especially if the device is connected to a corporate network segment. Devices may use a simple login and password scheme to protect access, but that should only be one level of a multi-layered, defense-in-depth strategy. With stronger corporate security policies and regulatory compliance requirements, this single level of modem access protection is unlikely to satisfy.



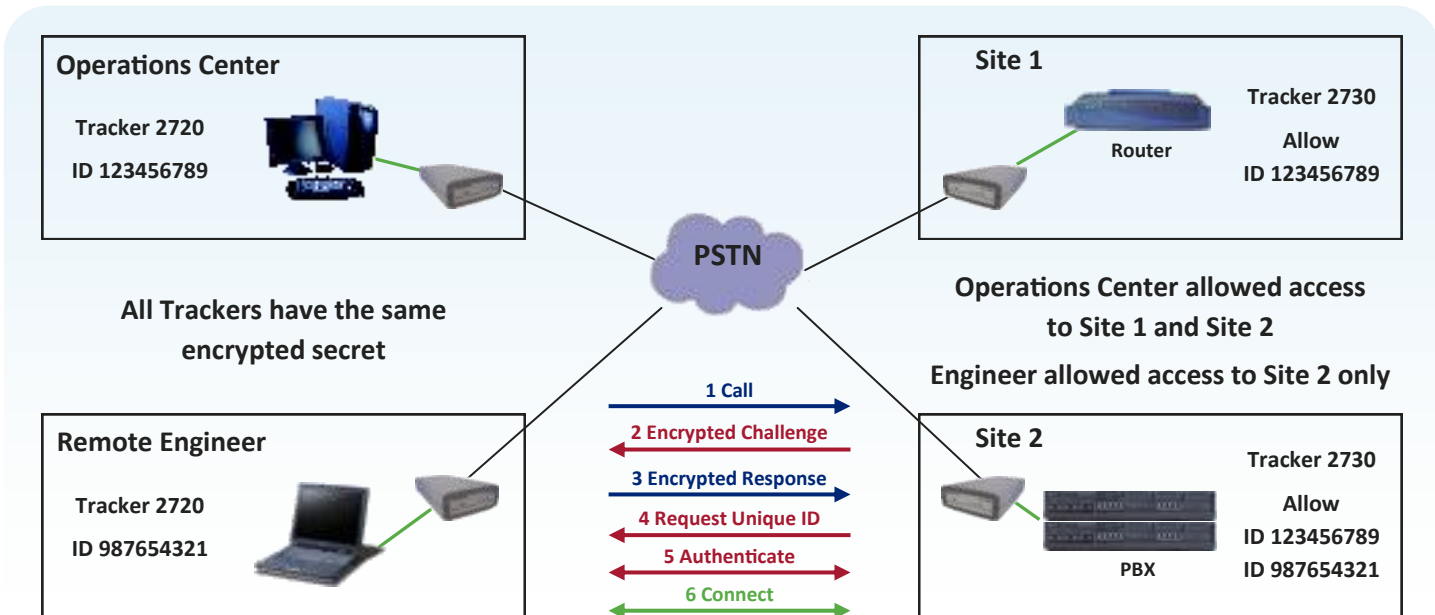
### THE SOLUTION

The Tracker 2720 'Key' is connected to an access control server or to an engineer's PC. It is programmed with an encrypted secret and a unique ID. The Tracker 'Lock' is connected to the remote device and is programmed with the same encrypted secret. (Note that the Tracker 2720 acts as a standard outbound-only modem, it can call non-secure modems if desired, and requires no special software.)

If a call is made to a remote device protected by a Tracker 'Lock', the 'Lock' answers the call and issues a unique challenge. The Tracker 2720 will issue a response to the challenge. If both Trackers are using the same encrypted secret then step 1 of the authentication will be successful. In step 2, the Tracker 'Lock' checks the unique ID of the calling Tracker 2720 'Key' against its previously configured Access Control Lists. If the Tracker 2720 'Key' is allowed access, the modem session begins. All of this takes place digitally across the phone line between the two Tracker devices; it is transparent to the user and the access software being used.

The Access Control Lists in the Tracker 'Lock', together with the unique ID in the Tracker 2720 'Key', enable individual or groups of 'Keys' to be granted or denied access to the individual devices being managed. It also allows lost Keys to be denied.

## Managing multiple sites and multiple users with Tracker secure modems



## SECURITY CREDENTIALS

Each Tracker 2720 and 2730 is programmed with a customer-selected, unique 64 byte 'secret' and a factory-burned, unique 10-digit identifier. The identifier cannot be changed by any means and follows this number pattern:

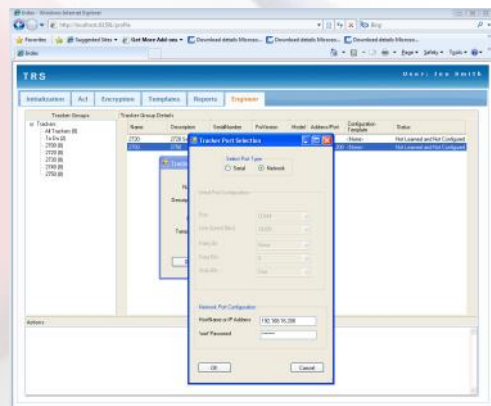
- Digits 1 - 4 make up a unique, Data Track-assigned group identifier
- Digits 5 - 10 make up a unique device identifier within that group

The use of a group identifier plus device identifier eliminates the complexity of managing multiple secrets, enhances the access control ability of the system, and allows for support of a greater number of separate access systems within an organization.

### Credential Management

Data Track's TRS software provides centralized registration and management of the security credentials used by the two-factor authentication process. Features include:

- Registering the Tracker 'Key' and 'Lock' devices in a management database
- Creating and managing the "secret" and the Access Control Lists
- Installing, security credentials to Trackers locally or remotely
- Generating Tracker security credential management activity logs and reports



## PHYSICAL & ELECTRICAL SPECIFICATIONS

Unit Size: Width 3.15" x Height 1.18" x Depth 5.91"

Weight 7 oz

Power: +5v DC supplied by external AC adapter



Designed to work on all European Union and North American PSTN networks.

Data Track Technology is an ISO 9001:2000 quality certified company