

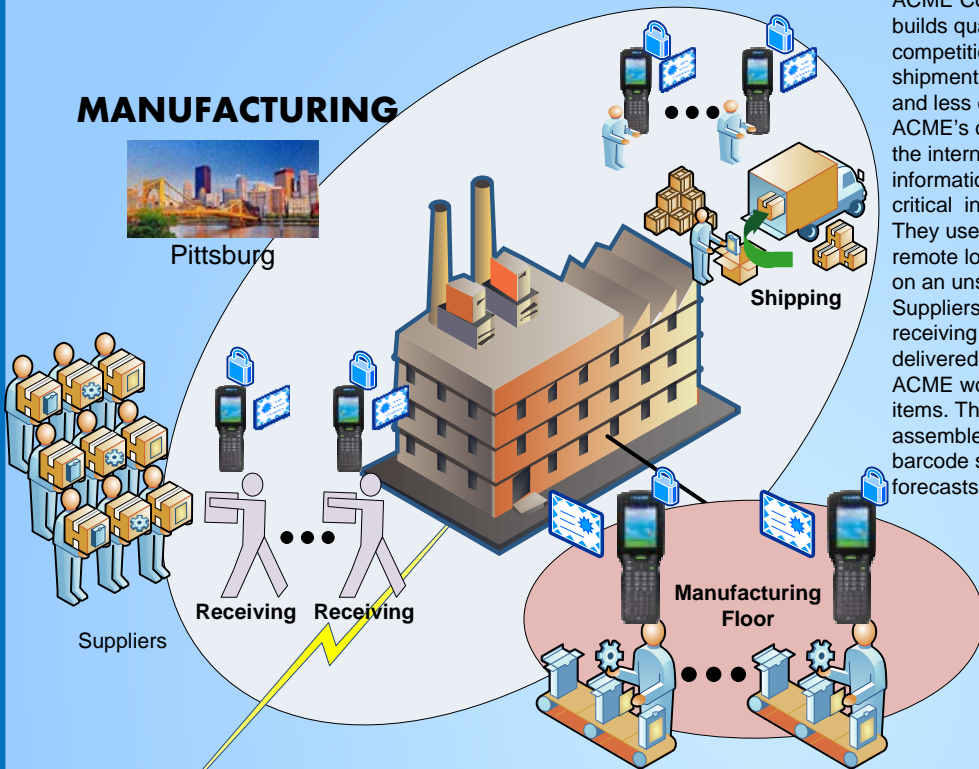


*GSW SSH Server Digital Certificate Authentication – Certificate To User Account Mapping*



*Certificates*

**Use Case 1: Many-to-one Digital Certificate Mapping Overview**



ACME Company has a manufacturing plant in Pittsburg that builds quality items at a lower cost than any competitors. The competition has tried many times to identify the supplies and shipments, attempting to figure out how ACME can do it better and less expensive. ACME's corporate data center is located in Atlanta and they use the internet for connectivity. ACME wants to secure the information so no competitor can eavesdrop or otherwise obtain critical information. They use the GSW SSH Server, because it provides secure remote logon, secure data exchange and secure access, even on an unsecure network. Suppliers deliver materials every day. ACME has a large receiving department that records each material item that is delivered with barcode scanners. ACME workers on the manufacturing floor build the quality items. They keep track of the item at various build stage (solder, assemble, rework etc.), of the manufacturing process with barcode scanners, to monitor quality and ensure delivery forecasts can be met. ACME's Shipping department uses barcode scanners (both hand held and truck mount) to track all the items manufactured and the number of items in each crate. Then they ship the items to their warehouse.

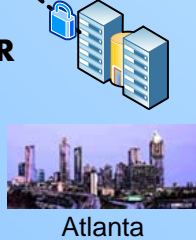
**MANY DIGITAL CERTIFICATES ARE MAPPED TO A SINGLE USER ACCOUNT**



**1** Each scanner has a different certificate installed. The Subject Entity fields on each of the x.509 digital certificates has been configured to start with the arbitrary letters MF (for **Manu**Facturing) as per the administrators choice. All scanners in manufacturing use the same Microsoft Windows user account name on the server.

**2** When a manufacturing scanner initiates a connection to the server, its digital certificate is sent to the GSW SSH Server for authentication.

**GSW SSH SERVER (DATACENTER)**



Atlanta

**3** When the digital certificate is authenticated, it is mapped to the defined user account for manufacturing, and access granted.

User Account for Manufacturing

If a certificate is not authenticated, it is not allowed access to the server

- No Passwords to type, loose, or hide.
- Automatic Logon
- Automatic Application Launch