Enabling PKI for WInnForum/CBRS Device Manufacturers

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The role and value of digital certificates in the WinnForum/CBRS ecosystem

What CAs do

How WinnForum/CBRS stakeholders will work with CAs

About DigiCert

Q&A
The role and value of digital certificates in the WINnForum/CBRS ecosystem

CBRS Architecture

Stakeholder Coverage

- CBSD Devices
- SAS Providers
- Domain Proxy
- CPIs/TPAs
- PALs (future)

Value

- Mutual Authentication
- Encryption
- Trust
- Outsourced PKI
What CAs do

• CAs act as a trusted third party
• CAs will create a Root CA, and make available, via a publicly available website, the public keys for that Root CA to be embedded in any WIInnForum-related devices/software
• CAs will create Intermediate CAs which are unique to each member
• CAs authenticate that the organizations/individuals requesting digital certificates are who they represent themselves to be
• CAs will issue digital certificates that uniquely identity devices, companies, and CPIs
• CAs provide a “trusted PKI infrastructure”: private keys stored in HSMs, 24x7x365 live site/DR site, and support to their customers
How WInnForum/CBRS stakeholders will work with CAs

- All stakeholders in the WInnForum-CBRS ecosystem (SAS, Domain Proxy, CPIs, PALs, Manufacturers) are covered
- Each member will have an agreement with one or more CAs
- Each member will have one (or more) accounts with their CAs, and from those accounts they will submit orders to their CA
- The CA will authenticate/validate orders, and fulfill the orders
- The WInnForum-CBRS ecosystem members will receive batches of digital certificates and embed them in the root stores of their devices/software
About DigiCert

- World’s leading provider of SSL, PKI, and IoT solutions \(^1\)
- Securing 26 billion web connections daily
- Preferred provider to the Global 2000

DigiCert’s acquisition of Symantec Website Security unites the industry’s top talent to accelerate trust solutions.

\(^1\) According to Netcraft and 451 Group analysis
We are a sought-after provider of PKI and trust in IoT consortiums and ecosystems:

You are probably already using our services: for SSL, Enterprise PKI, or IoT

- Of the 89 WinForum members with domains:
  - 33% (29) had no certificates
  - 30% (27) are DigiCert customers
  - 37% (33) all other certificates

- Of the 60 domains with certificates:
  - DigiCert has the largest share at 45%, the next largest CA had 13%