

CTS Wireless Pilot Status

December 4, 2013



Pilot Objective & Scope

Develop and implement a secure, enterprise Wireless service providing agency employees and guest agencies greater mobility and productivity.

In Scope:

- Use Case #1 – Local Agency Access
- Use Case #2 – Guest Access
- Use Case #3 – Roaming Agency Access

Not in Scope:

- BYOD access to state resources (is available using Guest Access + VPN)
- Public Access (internet access without any password)



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Pilot Participants

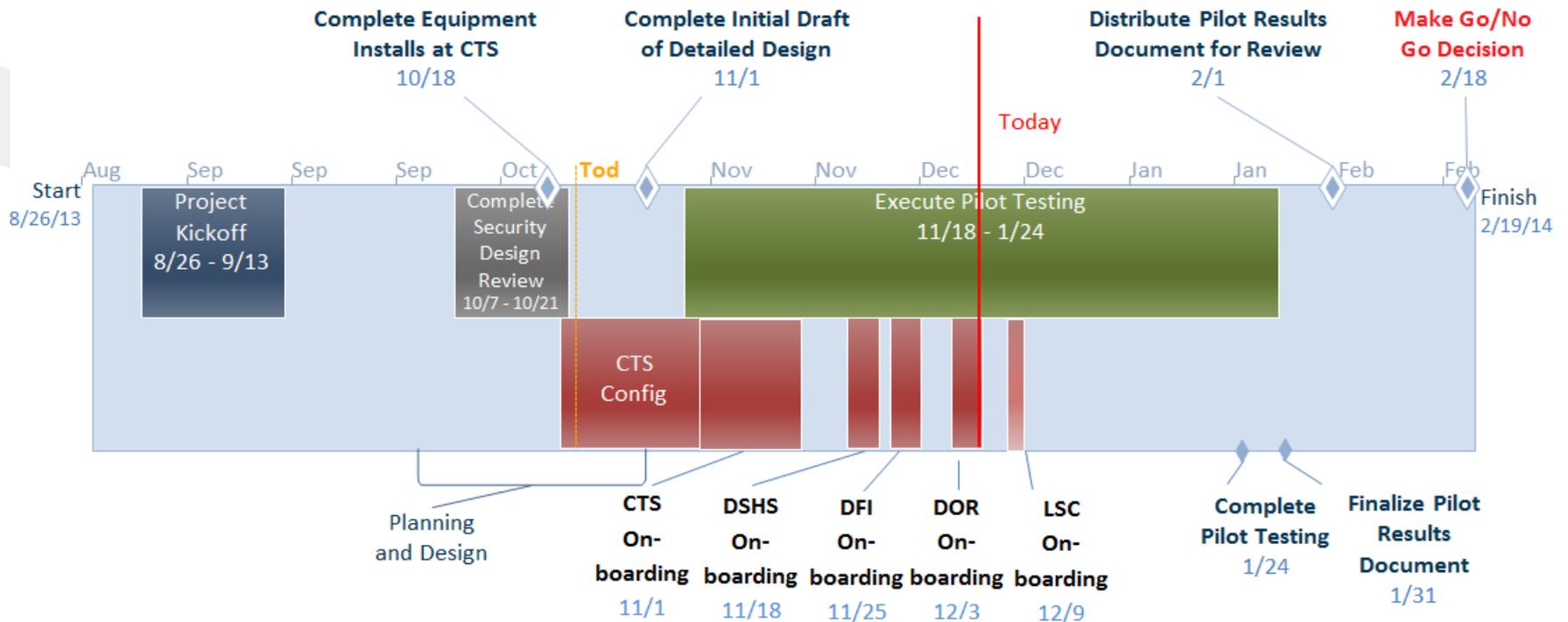
- There are 4 agencies participating along with CTS.
- The agencies include:
 - DSHS
 - DOR
 - DFI
 - LSC (roaming access only, using CTS supplied test account)



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Pilot Timeline

CTS Wireless Project Milestones



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Pilot Status

- Most of the customer onboarding is complete (LSC remains):
 - Customer training has occurred
 - Agency and CTS readiness activity has completed
 - Necessary firewall changes were made
 - Necessary IP and DHCP configuration changes were made
 - Floor maps were loaded into the Prime Infrastructure application
 - Access Points (APs) were installed
 - Customers have begun testing
- Initial feedback regarding user experience is positive, however the teams are identifying and resolving issues



Client Configuration

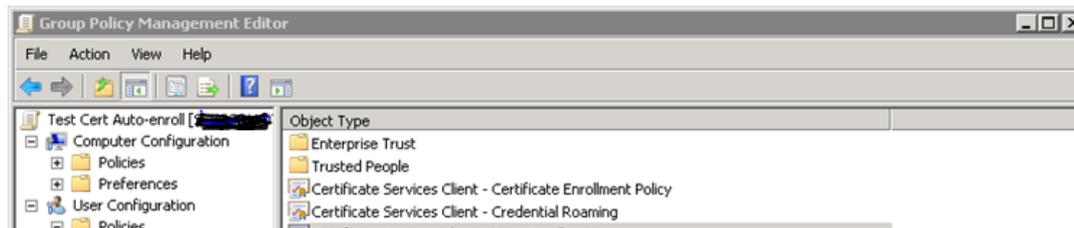
CTS shared instructions to the agencies for the creation of a Group Policy Object (GPO) which agency admins will deploy to automatically update users' machines with the appropriate client configuration and user certificates when users log in to Active Directory.

Create Certificate Enrollment GPO

Create a new GPO and link it at the appropriate location in your domain. If your user objects are not located in a single OU hierarchy in your domain link this GPO at the root level of the domain.

Name the GPO "*Agency – CTS Wireless Pilot User Certificates Auto-Enroll*"

Edit the GPO and browse to the location depicted in the screenshot below.



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Pilot Testing

CTS provided agencies with 54 pilot test cases and encouraged agencies to supplement with additional test cases to address accessing customer-specific applications.

Test Number	WIRELESS1	Test Title	Authentication – Are all pilot agencies part of EAD able to authenticate following the correct AD path for local, remote access?	
Testing Owner	All Agencies			
Tester Location	Agency 1/Agency Secure SSID WPA2-Enterprise enabled Wireless SSID	Resource	All pilot agencies, CTS and Presidio Engineer	
Test Purpose	Test that an Agency asset when connecting to the wireless network can authenticate via 802.1x using EAP-TLS with a machine certificate and be authorized full access to the network			
Requirements	Agency asset must have 802.1x supplicant configured for wireless authentication with user authentication using user certificate that must be in the user certificate store. Once authenticated, ISE must verify the credentials the certificate presented match an allowed Active Directory group before providing access to the agency VRF with full access.			
Test Procedures	Windows 7 and Windows XP SP3 will connect to secure SSID using the native windows supplicant preconfigured with AD policies. Users will test access to resources and the correct AD path will be verified. The path will be verified by CTS then Presidio using sniffer traces			
Expected Results	Machine should connect automatically using machine credentials with full access to resources. AD path will be correct.	Pass/Fail/NA		
Reason for Failure				
Remarks	CTS #1 - The reason for this requirement (key being following the correct path) is because of the POC testing with DSHS where the correct path was not followed but the authentication was still passed - This test is not for testing agency access to their applications or data but to make sure the pathing is correct. - Should use sniffer tools to make sure the correct devices in the correct path are being used.			



Public Access

Unfettered access to the internet is not currently in scope for the pilot and was initially assumed to be out of scope for production as well. During pilot discussions, there has been some interest expressed in public access.

Would public access be a requirement for most agencies?



Next Steps

- Install LSC Access Point
- Continue test case execution and gather results.
- Continue to develop the Business Model.
- Finalize Business Plan by end of testing to inform the Go / No Go decision.

