

Sheet1

| Test Cases | | | | | | |
|---|---|--|---|--|---------------|--------------|
| Project Name | OpenEMR CCHIT ARRA Certification | | | Steps Executed By | Paul Freeland | |
| Test Category | Functionality | | | | | |
| Script | Client Side Certificates | | | | | |
| Prerequisites | User should have access to OpenEMR sft | | | | | |
| Other Interface Details | SSL and CA Certificates have already been enabled within Apache | | | | | |
| Scenario | Step # | Functionality | Steps to Execute | Expected Result | Execution | Input Values |
| Demonstrate Client Side Certificates | 1 | Client Side Certificates | login as Administrator | Calendar is displayed | Pass | |
| | 2 | | select Administration>Other>Certificates | SSL Certification panel is displayed | Pass | |
| | 3 | Create the SSL Certificate Authority and Server certificates | enter Host Name (required) enter Email Address, Organization Name, Organizational Unit name, Locality, State or Province, Country (all optional) and Client certificate validation period (365) and click <Download Certificates> | ssl.zip file is created and saved to your preferred location | Pass | openemr |
| | 4 | | extract the zip file ssl.zip, which will contain: * Server.crt : The Apache SSL server certificate and public key * Server.key : The corresponding private key * CertificateAuthority.crt : The Certificate Authority certificate * CertificateAuthority.key : The corresponding private key * admin.p12 : A client certificate for the admin user | files are displayed after unzip process | Pass | |
| | 5 | Configure Apache to use HTTPS | Add new certificates to the Apache configuration file: SSLEngine on SSLCertificateFile /path/to/Server.crt SSLCertificateKeyFile /path/to/Server.key SSLCACertificateFile /path/to/CertificateAuthority.crt | | Pass | |
| | 6 | Configure Apache to use Client side SSL certificates | Add following lines to the Apache configuration file: SSLVerifyClient require SSLVerifyDepth 2 SSLOptions +StdEnvVars | | Pass | |

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| | 7 | Configure Openemr to use Client side SSL certificates | Update the following variables in file: globals.php To enable Client side ssl certificates: Set 'is_client_ssl_enabled' to 'true' Provide absolute path of file CertificateAuthority.key Set 'certificate_authority_key' to absolute path of file 'CertificateAuthority.key' Provide absolute path of file CertificateAuthority.crt Set 'certificate_authority crt' to absolute path of file 'CertificateAuthority.crt' Restart apache server | | Pass | | |
| | 8 | Import Admin cert | In browser (Firefox) select Tools>Options>Advanced>View Certificates | | Pass | | |
| | 9 | | Select the tab Your Certificates, then Import button and select admin (admin.p12) file | | Pass | | |
| | 10 | | leave password blank and click OK | | Pass | | |
| | 11 | | Logon to OpenEMR | | Pass | | |