

关于CTI Manager呼叫流的技术说明Jabber Deskphone控制请求的

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简介

本文描述成功的计算机电话集成(CTI)管理器验证的详细呼叫流Jabber桌面客户端的

先决条件

要求

Cisco 建议您了解以下主题：

- 轻量级目录访问协议(LDAP)
- 计算机电话集成(CTI)

使用的组件

本文档中的信息基于以下软件版本：

- Windows的11.5思科Jabber
- Cisco Unified Communications Manager (CUCM) 10.5(2)以上

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您的网络实际，请保证您了解所有命令潜在影响。

Jabber Deskphone控制的CTI消息传送

保证日志设置为调试级别的CTI Manager服务，再次产生问题，然后通过line命令或实时监控工具(RTMT)收集日志。遵从步骤此处验证CTI验证

步骤1. 供应商Open请求从Jabber客户端由CTI Manager服务接收。

```
00895255.002 |08:59:16.944 |AppInfo |[CTI-APP] [CTIHandler::processIncomingMessage] CTI  
ProviderOpenRequest ( seq#=2 provider=UCProvider login=wwhite heartbeat=60 timer=10 priority=0  
lightWeightProviderOpen=0 AuthType=0 RequestOldFetch=0 EncryptedSSODataSize=0)
```

```
00895256.000 |08:59:16.944 |SdlSig |CtiProviderOpenReq |init_complete_await_provopen
|CTIHandler(1,200,22,7) |CTIHandler(1,200,22,7) |1,200,13,8.3^**^* |[R:N-H:0,N:0,L:0,V:0,Z:0,D:0]
Async Response=2 ProviderName=UCProvider ClientVersion=UCProvider LoginId=wwhite ApplName=Shibui
ServerHeartbeat=60 CMAssignedAppId=1234 PluginName=Cisco JTAPl LightWeightProviderOpen=0 Auth
Style=0 RequestOldFetch=0
00895256.001 |08:59:16.944 |AppInfo |SSOTOKEN =
00895256.002 |08:59:16.944 |AppInfo |CQBEBUILDER::BuildQbeMessage(): objectID=2
00895256.003 |08:59:16.944 |AppInfo |CTIHandler::OutputQbeMessage: TcpHand=[1:200:13:8]
QbePref={0x0xf74b346c,0x70} pQbeMsg=0x0xf74b3474 qbeMsgSize=0x70 tmpLen=0x78 msgSize_=0x78
```

步骤2. 供应商开放答复被发送闲聊客户端。

```
00895256.004 |08:59:16.944 |AppInfo |[CTI-APP] [CTIHandler::OutputCtiMessage ] CTI
ProviderOpenResponse (seq#=2) provider id=16777223 FIPMode = 0
```

第三步：最终用户验证进程开始。

```
00895260.000 |08:59:17.057 |SdlSig |CtiProceedWithAppLogin |init_complete_await_auth
|CTIHandler(1,200,22,7) |CtiManager(1,200,21,1) |1,200,13,8.3^**^* |[R:L-H:0,N:0,L:0,V:0,Z:0,D:0]
00895261.000 |08:59:17.058 |SdlSig |CtiLoginCheckReq |ready |Directory(1,200,23,1)
|CTIHandler(1,200,22,7) |1,200,13,8.3^**^* |[T:N-H:0,N:0,L:0,V:0,Z:0,D:0] Login=wwhite Seq#=2
Auth Style=0 3rd Party Certificate=0 mOcspl_url= mIssuerName= EncryptedSingleSignOnData Size=0
00895261.001 |08:59:17.058 |AppInfo |CtiLoginCheckReq::authenticateByUserName
```

步骤4. 关键解密发生并且一定是成功的在认证尝试前。

```
00895261.002 |08:59:17.058 |AppInfo |CCMASymmetricEncryption::DecryptText Enter
00895261.003 |08:59:17.067 |AppInfo |CCMASymmetricEncryption::DecryptText Exit
00895261.004 |08:59:17.067 |AppInfo |Decrypted Key Status success - [52]
00895261.005 |08:59:17.067 |AppInfo |Nonce =cc64fd13-d4e1-43bc-808f-f051f7c945d0
00895261.006 |08:59:17.067 |AppInfo |Nonce validation success
00895261.007 |08:59:17.067 |AppInfo |CCMSymmetricEncryption::DecryptText:enter
00895261.008 |08:59:17.067 |AppInfo |CCMEncryption::DecryptText (Exit) (Success))
00895261.009 |08:59:17.067 |AppInfo |Decrypted Password Status success - [8]
```

步骤5. 用户名获取并且使用验证与密码一起。

```
00895261.010 |08:59:17.067 |AppInfo |AuthenticationImpl::login:enter
00895261.011 |08:59:17.067 |AppInfo |AuthenticationImpl::retrieveCredential:enter
00895261.012 |08:59:17.067 |AppInfo |userid is wwhite
00895261.013 |08:59:17.067 |AppInfo |AuthenticationImpl::login - no encryptedpassword
Credential, look for password
00895261.014 |08:59:17.067 |AppInfo |AuthenticationImpl::login (Auth with password. Calling
authenticateUserWithPassword)
00895261.015 |08:59:17.067 |AppInfo |authenticationDB::authenticateUserWithPassword():enter
00895261.016 |08:59:17.067 |AppInfo |Credential Length is: 8
```

步骤6. CTI Manager检查用户的证件策略。

```
00895261.010 |08:59:17.067 |AppInfo |AuthenticationImpl::login:enter
00895261.011 |08:59:17.067 |AppInfo |AuthenticationImpl::retrieveCredential:enter
00895261.012 |08:59:17.067 |AppInfo |userid is wwhite
00895261.013 |08:59:17.067 |AppInfo |AuthenticationImpl::login - no encryptedpassword
Credential, look for password
00895261.014 |08:59:17.067 |AppInfo |AuthenticationImpl::login (Auth with password. Calling
authenticateUserWithPassword)
00895261.015 |08:59:17.067 |AppInfo |authenticationDB::authenticateUserWithPassword():enter
00895261.016 |08:59:17.067 |AppInfo |Credential Length is: 8
```

步骤7. 最终用户的CTI验证继续。

```
00895261.034 |08:59:17.149 |AppInfo |authenticationDB::login (Authenticating using LDAP)
00895261.035 |08:59:17.149 |AppInfo
|authenticationLDAP.cpp::authenticateUserWithPassword():enter
```

```
00895261.036 |08:59:17.149 |AppInfo |LDAP userid is 'wwhite'
00895261.037 |08:59:17.149 |AppInfo
|authenticationUtils::escapeLDAPSpecialCharsForFilter():enter
00895261.038 |08:59:17.149 |AppInfo |
After Escaping for LDAP special Characters for Filter = wwhite
```

步骤8. CTI Manager服务当前尝试连接到LDAP在认证尝试前。

```
00895261.040 |08:59:17.149 |AppInfo |LDAP not initialized...connecting...
00895261.041 |08:59:17.149 |AppInfo |authenticationLDAP::connect():enter
00895261.042 |08:59:17.149 |AppInfo |authenticationLDAP::Authenticate():enter
00895261.043 |08:59:17.149 |AppInfo |Authenticating with SSL not enabled
(ldap://10.10.10.10:3268)
```

步骤9.连接尝试是成功的与在LDAP认证配置里配置的服务帐户。

```
00895261.040 |08:59:17.149 |AppInfo |LDAP not initialized...connecting...
00895261.041 |08:59:17.149 |AppInfo |authenticationLDAP::connect():enter
00895261.042 |08:59:17.149 |AppInfo |authenticationLDAP::Authenticate():enter
00895261.043 |08:59:17.149 |AppInfo |Authenticating with SSL not enabled
(ldap://10.10.10.10:3268)
```

步骤10. Admin验证是成功的。

```
00895261.051 |08:59:17.158 |AppInfo |LDAP authentication bind SUCCESS for
Administrator@joshlab.net
00895261.052 |08:59:17.158 |AppInfo |Connection # (0): sucessful
00895261.053 |08:59:17.158 |AppInfo |Details ::
00895261.054 |08:59:17.158 |AppInfo |10.10.10.10 3268
00895261.055 |08:59:17.158 |AppInfo |-----
-----
00895261.056 |08:59:17.158 |AppInfo |Available Servers (1)
00895261.057 |08:59:17.158 |AppInfo |authenticationLDAP::Authenticate():exit(0)
00895261.058 |08:59:17.158 |AppInfo |Authentication of LDAP administrator successful.
```

步骤11. CTI Manager服务获取LDAP信息并且验证与最终用户帐户。

```
00895261.072 |08:59:17.164 |AppInfo |Retrieve the specified user entry:
(&(&(objectclass=user)(!(objectclass=Computer))(!(UserAccountControl:1.2.840.113556.1.4.803:=2))
)(sAMAccountName=wwhite))
00895261.073 |08:59:17.164 |AppInfo |LDAP Search for User base: 'OU=Breaking
Bad,DC=joshlab,DC=net'
00895261.074 |08:59:17.165 |AppInfo |LDAP Search complete. Code: 0
00895261.075 |08:59:17.165 |AppInfo |Get DN of entry.
00895261.076 |08:59:17.165 |AppInfo |Got DN: CN=Walter White,OU=Breaking Bad,DC=joshlab,DC=net
00895261.077 |08:59:17.165 |AppInfo |Attempt to authenticate DN: CN=Walter White,OU=Breaking
Bad,DC=joshlab,DC=net
00895261.078 |08:59:17.165 |AppInfo |authenticationLDAP::Authenticate():enter
00895261.079 |08:59:17.165 |AppInfo |Authenticating with SSL not enabled
(ldap://10.10.10.10:3268)
```

步骤 12最终用户的LDAP认证是成功的。

```
00895261.087 |08:59:17.171 |AppInfo |LDAP authentication bind SUCCESS for CN=Walter
White,OU=Breaking Bad,DC=joshlab,DC=net
00895261.088 |08:59:17.171 |AppInfo |Connection # (0): sucessful
00895261.089 |08:59:17.171 |AppInfo |Details ::
00895261.090 |08:59:17.171 |AppInfo |10.10.10.10 3268
00895261.091 |08:59:17.171 |AppInfo |-----
-----
00895261.092 |08:59:17.171 |AppInfo |Available Servers (1)
00895261.093 |08:59:17.171 |AppInfo |authenticationLDAP::Authenticate():exit(0)
00895261.094 |08:59:17.171 |AppInfo |authenticationLDAP::authenticateUserWithPassword():Exit(0)
00895261.095 |08:59:17.171 |AppInfo |Successfully authenticated user: wwhite
```

步骤 13CTI Manager检查数据库保证最终用户有正确权限对允许到电话。

相关信息

- [Jabber配置指南](#)
- [技术支持和文档 - Cisco Systems](#)