

# 跨集群的分機移動和分機移動：CUCM 12.5中的更改

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## 簡介

本文檔介紹其中一個服務引數**Multiple Login Behavior for extension mobility cross-cluster**中的更改。

## 必要條件

### 需求

本文件沒有特定需求。

### 採用元件

本文中的資訊係根據以下軟體和硬體版本：

- Cisco Call Manager版本：12.5.0.98000-1078和12.5.0.99832-3
- Cisco IP電話8861  
通訊協定:SIP  
韌體：12-0-1 SR1-1
- Cisco IP電話8851  
通訊協定:SIP

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

## 設定

分機移動：它允許使用者臨時從同一群集中的另一台Cisco IP電話訪問其Cisco IP電話配置（快速撥號、線路外觀）。

跨群集分機移動：此功能允許一個Cisco Unified Communication Manager(CUCM)集群（通常稱為主集群）的使用者登入到另一個CUCM集群（稱為訪問集群）的Cisco IP電話，就像他們在主站點使用IP電話一樣。

### 12.5之前的版本

有一個服務引數**Intra-Cluster Multiple Login Behavior**(System > Service Parameter，然後選擇您的呼叫管理器和分機移動性作為服務)。此引數用於控制分機移動性的多個登入。有效值為：

- 允許  
使用者可以同時登入多部電話。
- 不允許  
如果使用者登入到其中一台電話，則他無法登入到另一台電話。
- 自動註銷  
如果使用者登入了一部電話，然後嘗試登入另一部電話，則登入將在第二部電話上成功，並從第一部電話註銷。

EMCC公司則不存在這樣的行為。始終允許多次登入，管理員沒有控制它的選項。

### 從12.5開始的新變化

現在，在EMCC中，我們可以靈活地控制多個登入。有一個名為**Multiple Login Behavior**的新服務引數(System > Service Parameter，然後選擇Select your call manager和Extension mobility作為服務)，可幫助我們實現此目標。其值與之前相同：

- 允許多次登入
- 不允許多次登入
- 自動註銷

**附註：**應用於主群集的服務引數配置設定強制實施且不會訪問群集。

示例場景：在主群集上將多個登入行為引數設定為**Multiple Logins Not Allowed on the home cluster**和**Multiple Logins Allowed on the visiting cluster**。

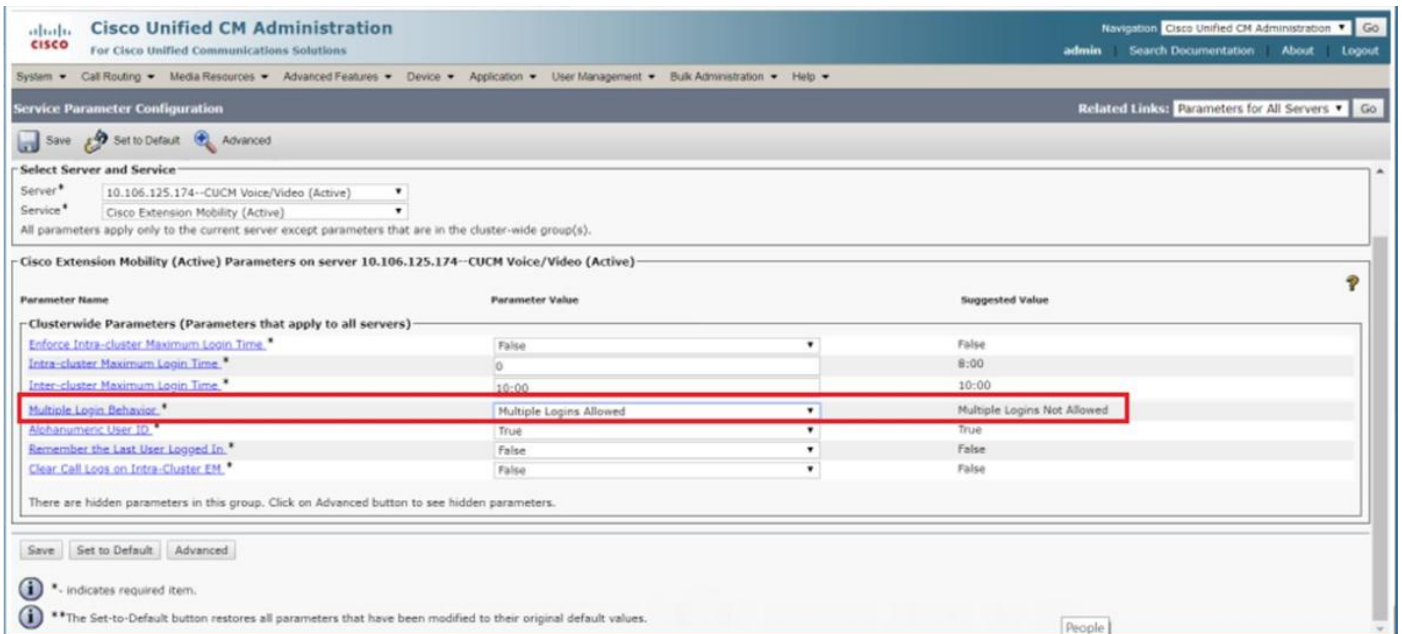
如果您登入到訪問集群，然後嘗試再次登入到訪問集群上的另一台電話，則在這種情況下不允許登入，因為，在主集群上，該引數設定為**Multiple Logins Not Allowed**。

# 疑難排解

## 分機移動的日誌分析

### 案例1:將多個登入行為設定為允許多個登入

服務引數如下所示：



在Extension mobility服務日誌中，您可以看到以下引數：

```
2019-01-26 10:55:59,109 INFO [Thread-68 ] ServiceParameters - -----
Begin Service Parameters -----

2019-01-26 10:55:59,109 INFO [Thread-68 ] ServiceParameters - Max Duration
Enabled = false

2019-01-26 10:55:59,109 INFO [Thread-68 ] ServiceParameters - Intra-Cluster
Max Login Duration String = 0

2019-01-26 10:55:59,109 INFO [Thread-68 ] ServiceParameters - Inter-cluster
Max Login Duration String = 10:00

2019-01-26 10:55:59,109 INFO [Thread-68 ] ServiceParameters - Multi Login
Policy = multiOK

2019-01-26 10:55:59,109 INFO [Thread-68 ] ServiceParameters - Max Concurrent
Sessions = 15

2019-01-26 10:55:59,109 INFO [Thread-68 ] ServiceParameters - Is IP Check
Enabled = false

2019-01-26 10:55:59,110 INFO [Thread-68 ] ServiceParameters - Trusted IP List
=

2019-01-26 10:55:59,110 INFO [Thread-68 ] ServiceParameters - EM Device Cache
Size = 10000

2019-01-26 10:55:59,110 INFO [Thread-68 ] ServiceParameters - Allow Proxy
```

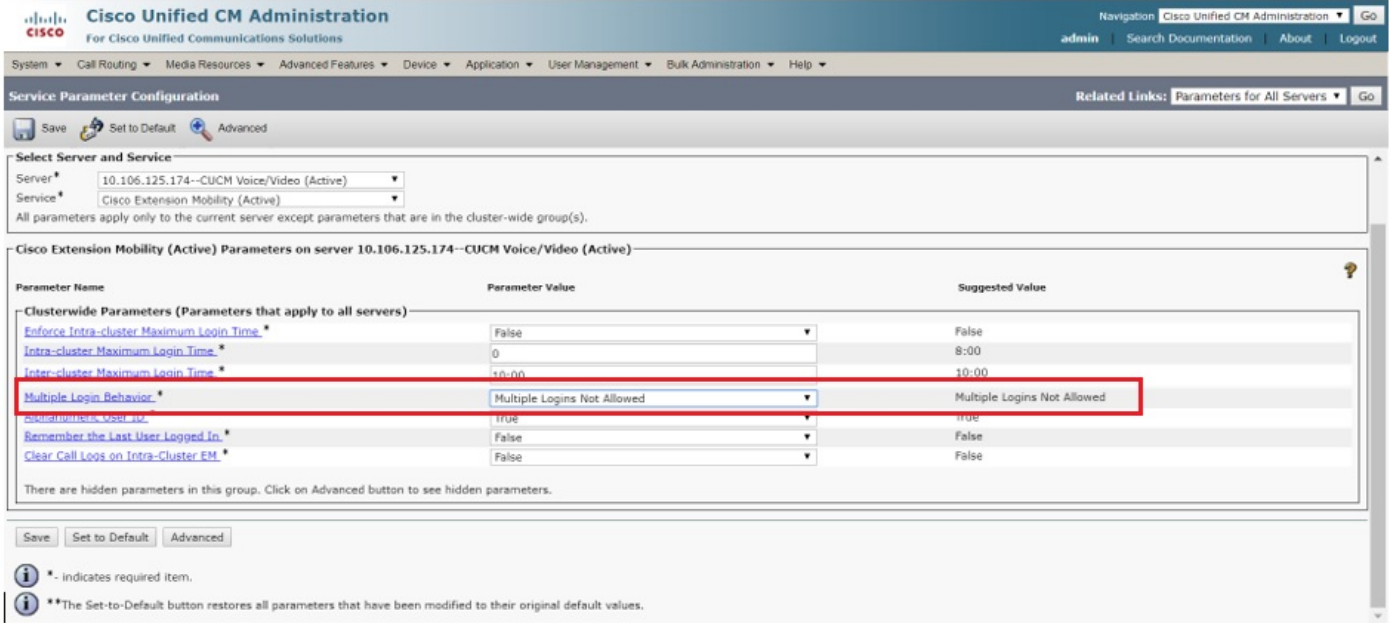
= false

2019-01-26 10:55:59,110 INFO [Thread-68 ] ServiceParameters - EMCC Allow  
Proxy = true

2019-01-26 10:55:59,110 INFO [Thread-68 ] ServiceParameters - -----  
End Service Parameters -----

### 案例2:多個登入行為設定為不允許多個登入

服務引數如下所示：



在Extension mobility服務日誌中，您可以看到以下引數：

2019-01-24 22:12:15,916 INFO [Thread-68 ] ServiceParameters - -----  
Begin Service Parameters -----

2019-01-24 22:12:15,916 INFO [Thread-68 ] ServiceParameters - Max Duration  
Enabled = false

2019-01-24 22:12:15,916 INFO [Thread-68 ] ServiceParameters - Intra-Cluster  
Max Login Duration String = 0

2019-01-24 22:12:15,916 INFO [Thread-68 ] ServiceParameters - Inter-cluster  
Max Login Duration String = 10:00

2019-01-24 22:12:15,916 INFO [Thread-68 ] ServiceParameters - Multi Login  
Policy = noLogin

2019-01-24 22:12:15,916 INFO [Thread-68 ] ServiceParameters - Max Concurrent  
Sessions = 15

2019-01-24 22:12:15,916 INFO [Thread-68 ] ServiceParameters - Is IP Check  
Enabled = false

2019-01-24 22:12:15,916 INFO [Thread-68 ] ServiceParameters - Trusted IP List  
=

2019-01-24 22:12:15,916 INFO [Thread-68 ] ServiceParameters - EM Device Cache  
Size = 10000

```
2019-01-24 22:12:15,917 INFO [Thread-68 ] ServiceParameters - Allow Proxy
= false

2019-01-24 22:12:15,917 INFO [Thread-68 ] ServiceParameters - EMCC Allow
Proxy = true

2019-01-24 22:12:15,917 INFO [Thread-68 ] ServiceParameters - -----
End Service Parameters -----
```

錯誤列印方式如下：

```
2019-01-26 10:54:45,661 ERROR [http-bio-8443-exec-19] EMServiceServlet - 110:
LoginService: Dev: test2- Error# 25-com.cisco.emservice.MyException: Policy Violation:
com.cisco.emservice.PolicyValidatorException: Not allowed to log into multiple devices.
```

```
2019-01-26 10:54:45,661 INFO [http-bio-8443-exec-19] EMServiceServlet - 110:Request
succeeded returning<response>
```

```
<failure>
```

```
<error code="25">Policy Violation: com.cisco.emservice.PolicyValidatorException: Not allowed to
log into multiple devices.
```

```
</error>
```

```
</failure>
```

```
</response>
```

在電話上存在此類錯誤。



### 案例3:多個登入行為設定為自動註銷

服務引數如下所示：

Cisco Unified CM Administration

Navigation: Cisco Unified CM Administration | Go

admin | Search Documentation | About | Logout

System | Call Routing | Media Resources | Advanced Features | Device | Application | User Management | Bulk Administration | Help

Service Parameter Configuration | Related Links: Parameters for All Servers | Go

Save | Set to Default | Advanced

Select Server and Service

Server: 10.106.125.174--CUCM Voice/Video (Active)

Service: Cisco Extension Mobility (Active)

All parameters apply only to the current server except parameters that are in the cluster-wide group(s).

Cisco Extension Mobility (Active) Parameters on server 10.106.125.174--CUCM Voice/Video (Active)

Parameter Name	Parameter Value	Suggested Value
<b>Clusterwide Parameters (Parameters that apply to all servers)</b>		
Enforce Intra-cluster Maximum Login Time *	False	False
Intra-cluster Maximum Login Time *	0	8:00
Inter-cluster Maximum Login Time *	10:00	10:00
<b>Multiple Login Behavior *</b>	Auto Logout	Multiple Logins Not Allowed
Alphanumeric User ID *	True	True
Remember the Last User Logged In *	False	False
Clear Call Logs on Intra-Cluster EM *	False	False

There are hidden parameters in this group. Click on Advanced button to see hidden parameters.

Save | Set to Default | Advanced

\* - indicates required item.

\*\* The Set-to-Default button restores all parameters that have been modified to their original default values.

在Extension mobility服務日誌中，您可以將其視為引數：

```
2019-01-26 10:57:30,641 INFO [Thread-68 ] ServiceParameters - -----
Begin Service Parameters -----

2019-01-26 10:57:30,641 INFO [Thread-68 ] ServiceParameters - Max Duration
Enabled = false

2019-01-26 10:57:30,641 INFO [Thread-68 ] ServiceParameters - Intra-Cluster
Max Login Duration String = 0

2019-01-26 10:57:30,641 INFO [Thread-68 ] ServiceParameters - Inter-cluster
Max Login Duration String = 10:00

2019-01-26 10:57:30,641 INFO [Thread-68 ] ServiceParameters - Multi Login
Policy = autoLogout

2019-01-26 10:57:30,641 INFO [Thread-68 ] ServiceParameters - Max Concurrent
Sessions = 15

2019-01-26 10:57:30,641 INFO [Thread-68 ] ServiceParameters - Is IP Check
Enabled = false

2019-01-26 10:57:30,641 INFO [Thread-68 ] ServiceParameters - Trusted IP List
=

2019-01-26 10:57:30,641 INFO [Thread-68 ] ServiceParameters - EM Device Cache
Size = 10000

2019-01-26 10:57:30,641 INFO [Thread-68 ] ServiceParameters - Allow Proxy
= false

2019-01-26 10:57:30,641 INFO [Thread-68 ] ServiceParameters - EMCC Allow
Proxy = true

2019-01-26 10:57:30,641 INFO [Thread-68 ] ServiceParameters - -----
End Service Parameters -----
```

## EMCC日誌分析

### 案例1:將多個登入行為設定為允許多個登入

#### 主群集

在EM服務日誌中：

#### 首次通過電話登入的請求(SEPF8A5C59E1126)

```
2019-01-26 13:45:36,635 DEBUG [http-bio-8443-exec-1] EmccSaxHandler - EMURI =
http%3A%2F%2F10.106.125.174%3A8080%2Femapp%2FEMAppServlet%3Fdevice%3DSEPF8A5C59E1126%26doLogout%
3Dtrue
2019-01-26 13:45:36,637 DEBUG [http-bio-8443-exec-1] EMServiceServlet - 101: Parse Complete
2019-01-26 13:45:36,637 INFO [http-bio-8443-exec-1] EMServiceServlet - 101: Setting remoteIPAddr
to connection IP=10.106.125.174
2019-01-26 13:45:36,637 INFO [http-bio-8443-exec-1] EMServiceServlet - 101 : 137 : atbabu:
processEmccRequest: Received EMCC Home Cluster Login Request for :rak
2019-01-26 13:45:36,637 INFO [http-bio-8443-exec-1] EMServiceServlet - 101 : 137 :
DeviceSecurityMode: 1 HomeCluster SecurityMode: 0
2019-01-26 13:45:36,637 INFO [http-bio-8443-exec-1] EMServiceServlet - 101: authenticate pin for
```

rak  
2019-01-26 13:45:36,650 INFO [http-bio-8443-exec-1] EMServiceServlet - 101 : 137 : atbabu:  
EmccHomeLogin : Performing Home Device Login for :rak  
2019-01-26 13:45:36,650 INFO [http-bio-8443-exec-1] EmccData - 101: getRemoteClusterInfo: Pkid  
for cluster atbabu is d23ef9ea-8392-dbbf-61db-1d9e1d505243  
2019-01-26 13:45:36,650 DEBUG [http-bio-8443-exec-1] EmccData - 101: getRemoteClusterInfo:  
Hostname = 10.106.125.174  
2019-01-26 13:45:36,650 INFO [http-bio-8443-exec-1] Authenticator -  
101:Authenticator.userExists: UserID: rak- Calling cmdb.isLocalUser(osUserID)...  
2019-01-26 13:45:36,650 DEBUG [http-bio-8443-exec-1] CMDatabase - Userid being passed to the  
query is rak  
2019-01-26 13:45:36,651 DEBUG [http-bio-8443-exec-1] CMDatabase - CMDatabase.isLocalUser() :  
SELECT islocaluser FROM EndUser WHERE my\_lower(userid)= my\_lower(?) : parameter ( 'rak' )  
2019-01-26 13:45:36,655 DEBUG [http-bio-8443-exec-1] CMDatabase - PKID for the ROW is  
2019-01-26 13:45:36,655 DEBUG [http-bio-8443-exec-1] CMDatabase - CMDatabase.isLocalUser() :  
isLocaluser : true  
2019-01-26 13:45:36,656 DEBUG [http-bio-8443-exec-1] CMDatabase - is Local user value :true  
2019-01-26 13:45:36,656 INFO [http-bio-8443-exec-1] Authenticator -  
101:Authenticator.userExists: UserID: rak- cmdb.isLocalUser(osUserID) returned  
2019-01-26 13:45:36,656 DEBUG [http-bio-8443-exec-1] EMServiceServlet - 101: 137: atbabu:  
performHomeDeviceLogin for deviceName: SEPF8A5C59E1126  
2019-01-26 13:45:36,656 INFO [http-bio-8443-exec-1] EMServiceServlet - 101:  
computeLoginDuration: Device: SEPF8A5C59E1126 EMCC Request: true EM API Request: false Duration  
Requested through EM API: -1  
2019-01-26 13:45:36,658 INFO [http-bio-8443-exec-1] CMDatabase -  
CMDatabase.getEndUserEmMaxLoginTime() : SELECT EmMaxLoginTime FROM EndUser WHERE userid=? :  
parameters ( 'rak' )  
2019-01-26 13:45:36,659 INFO [http-bio-8443-exec-1] EMServiceServlet - Effective Login Duration  
:36000 seconds  
2019-01-26 13:45:36,659 DEBUG [http-bio-8443-exec-1] DBRequestor - 101 : 137 : atbabu:  
performHomeDeviceLogin: Excecuting Stored Procedure:

## 從第二部電話請求同一使用者

2019-01-26 13:45:56,442 DEBUG [http-bio-8443-exec-8] EmccSaxHandler - EMURI =  
http%3A%2F%2F10.106.125.174%3A8080%2Femapp%2FEMAppServlet%3Fdevice%3DSEPB000B4BA01F1%26doLogout%  
3Dtrue  
2019-01-26 13:45:56,442 DEBUG [http-bio-8443-exec-8] EMServiceServlet - 103: Parse Complete  
2019-01-26 13:45:56,445 INFO [http-bio-8443-exec-8] EMServiceServlet - 103: Setting remoteIPAddr  
to connection IP=10.106.125.174  
2019-01-26 13:45:56,445 INFO [http-bio-8443-exec-8] EMServiceServlet - 103 : 139 : atbabu:  
processEmccRequest: Received EMCC Home Cluster Login Request for :rak  
2019-01-26 13:45:56,445 INFO [http-bio-8443-exec-8] EMServiceServlet - 103 : 139 :  
DeviceSecurityMode: 1 HomeCluster SecurityMode: 0  
2019-01-26 13:45:56,445 INFO [http-bio-8443-exec-8] EMServiceServlet - 103: authenticate pin for  
rak  
2019-01-26 13:45:56,469 INFO [http-bio-8443-exec-8] EMServiceServlet - 103 : 139 : atbabu:  
EmccHomeLogin : Performing Home Device Login for :rak  
2019-01-26 13:45:56,469 INFO [http-bio-8443-exec-8] EmccData - 103: getRemoteClusterInfo: Pkid  
for cluster atbabu is d23ef9ea-8392-dbbf-61db-1d9e1d505243  
2019-01-26 13:45:56,470 DEBUG [http-bio-8443-exec-8] EmccData - 103: getRemoteClusterInfo:  
Hostname = 10.106.125.174  
2019-01-26 13:45:56,470 INFO [http-bio-8443-exec-8] Authenticator -  
103:Authenticator.userExists: UserID: rak- Calling cmdb.isLocalUser(osUserID)...  
2019-01-26 13:45:56,470 DEBUG [http-bio-8443-exec-8] CMDatabase - Userid being passed to the  
query is rak  
2019-01-26 13:45:56,470 DEBUG [http-bio-8443-exec-8] CMDatabase - CMDatabase.isLocalUser() :  
SELECT islocaluser FROM EndUser WHERE my\_lower(userid)= my\_lower(?) : parameter ( 'rak' )  
2019-01-26 13:45:56,476 DEBUG [http-bio-8443-exec-8] CMDatabase - PKID for the ROW is  
2019-01-26 13:45:56,477 DEBUG [http-bio-8443-exec-8] CMDatabase - CMDatabase.isLocalUser() :  
isLocaluser : true  
2019-01-26 13:45:56,478 DEBUG [http-bio-8443-exec-8] CMDatabase - is Local user value :true  
2019-01-26 13:45:56,478 INFO [http-bio-8443-exec-8] Authenticator -



103:Authenticator.userExists: UserID: rak- cmdb.isLocalUser(osUserID) returned  
2019-01-26 13:45:56,478 DEBUG [http-bio-8443-exec-8] EMServiceServlet - 103: 139: atbabu:  
performHomeDeviceLogin for deviceName: SEPB000B4BA01F1  
2019-01-26 13:45:56,478 INFO [http-bio-8443-exec-8] EMServiceServlet - 103:  
computeLoginDuration: Device: SEPB000B4BA01F1 EMCC Request: true EM API Request: false Duration  
Requested through EM API: -1  
2019-01-26 13:45:56,482 INFO [http-bio-8443-exec-8] CMDatabase -  
CMDatabase.getEndUserEmMaxLoginTime() : SELECT EmMaxLoginTime FROM EndUser WHERE userid=? :  
parameters ( 'rak' )  
2019-01-26 13:45:56,485 INFO [http-bio-8443-exec-8] EMServiceServlet - Effective Login Duration  
:36000 seconds  
2019-01-26 13:45:56,485 DEBUG [http-bio-8443-exec-8] DBRequestor - 103 : 139 : atbabu:  
performHomeDeviceLogin: Excecuting Stored Procedure:

## 訪問群集

### 首次通過電話登入的請求(SEPF8A5C59E1126)

2019-01-26 13:45:46,786 DEBUG [mjunnur ] EmccCommunicator - 137: postMsg - Url =  
https://10.106.106.200:8443/emservice/EMServiceServlet m\_iHttpsTimeout = 120000  
2019-01-26 13:45:47,055 DEBUG [mjunnur ] EmccCommunicator - 137: Retrieved actual user from  
remote cluster : 'rak'  
2019-01-26 13:45:47,056 DEBUG [mjunnur ] EmccCommunicator - 137: performCheckUser: Num of DP is  
: 1  
2019-01-26 13:45:47,056 DEBUG [mjunnur ] CheckUserThread - 137: PerformCheckUser: Home Cluster  
for UserId: rak is :https://10.106.106.200:8443/emservice/EMServiceServlet  
2019-01-26 13:45:47,056 DEBUG [http-bio-8443-exec-7] EmccData - 137: cacheUserToCluster for  
user: rak  
2019-01-26 13:45:47,057 INFO [http-bio-8443-exec-7] EMServiceServlet - 137: EmccLoginRequest:  
Home Cluster URL for User:rak is : https://10.106.106.200:8443/emservice/EMServiceServlet  
2019-01-26 13:45:47,057 INFO [http-bio-8443-exec-7] EMServiceServlet - 137: EmccLoginRequest:  
Device Profile for this user is: Prerna-EM  
2019-01-26 13:45:47,057 DEBUG [http-bio-8443-exec-7] EMServiceServlet - 137:getEmccLoginInfo -  
SEPF8A5C59E1126  
2019-01-26 13:45:47,057 DEBUG [http-bio-8443-exec-7] DBRequestor - 137: getEmccLoginInfo: Query  
= execute function getEmccLoginInfo('SEPF8A5C59E1126')  
2019-01-26 13:45:47,131 DEBUG [http-bio-8443-exec-7] DBRequestor - 137: <VEMAPP>

### 從第二部電話請求同一使用者

2019-01-26 13:46:06,784 DEBUG [mjunnur ] EmccCommunicator - 139: postMsg - Url =  
https://10.106.106.200:8443/emservice/EMServiceServlet m\_iHttpsTimeout = 120000  
2019-01-26 13:46:06,901 DEBUG [mjunnur ] EmccCommunicator - 139: Retrieved actual user from  
remote cluster : 'rak'  
2019-01-26 13:46:06,902 DEBUG [mjunnur ] EmccCommunicator - 139: performCheckUser: Num of DP is  
: 1  
2019-01-26 13:46:06,902 DEBUG [mjunnur ] CheckUserThread - 139: PerformCheckUser: Home Cluster  
for UserId: rak is :https://10.106.106.200:8443/emservice/EMServiceServlet  
2019-01-26 13:46:06,902 DEBUG [http-bio-8443-exec-20] EmccData - 139: cacheUserToCluster for  
user: rak  
2019-01-26 13:46:06,903 INFO [http-bio-8443-exec-20] EMServiceServlet - 139: EmccLoginRequest:  
Home Cluster URL for User:rak is : https://10.106.106.200:8443/emservice/EMServiceServlet  
2019-01-26 13:46:06,903 INFO [http-bio-8443-exec-20] EMServiceServlet - 139: EmccLoginRequest:  
Device Profile for this user is: Prerna-EM  
2019-01-26 13:46:06,903 DEBUG [http-bio-8443-exec-20] EMServiceServlet - 139:getEmccLoginInfo -  
SEPB000B4BA01F1  
2019-01-26 13:46:06,903 DEBUG [http-bio-8443-exec-20] DBRequestor - 139: getEmccLoginInfo: Query  
= execute function getEmccLoginInfo('SEPB000B4BA01F1')  
2019-01-26 13:46:06,909 DEBUG [http-bio-8443-exec-20] DBRequestor - 139: <VEMAPP>

## 登入成功

```
2019-01-26 13:46:07,143 INFO [http-bio-8443-exec-20] EMServiceServlet - 139: EmccLoginRequest:
Performing Visiting Device Login for :rak
2019-01-26 13:46:07,144 INFO [http-bio-8443-exec-20] EMServiceServlet -
139:performVisitingDeviceLogin - SEPB000B4BA01F1
2019-01-26 13:46:07,144 DEBUG [http-bio-8443-exec-20] DBRequestor - 139:
performVisitingDeviceLogin: Query:
execute function visitingDeviceLogin('SEPB000B4BA01F1', 'mjunnur',
'http://10.106.125.174:8080/emapp/EMAppServlet?device=SEPB000B4BA01F1&doLogout=true', 'rak',
'10.106.106.200', 'null', '10.106.106.200', 'null')
2019-01-26 13:46:07,166 DEBUG [http-bio-8443-exec-20] DBRequestor - 139: t
2019-01-26 13:46:07,167 DEBUG [http-bio-8443-exec-20] EMServiceServlet - 139: EmccLoginRequest:
Result:
<?xml version="1.0"?>
<response>
<success/>
</response>
```

## 案例2:多個登入行為設定為不允許多個登入

### 主群集

#### 請求第一個使用者

```
2019-01-26 14:34:43,093 INFO [http-bio-8443-exec-16] EMServiceServlet - 109 : 142 : atbabu:
processEmccRequest: Received EMCC Home Cluster Login Request for :rak
2019-01-26 14:34:43,093 INFO [http-bio-8443-exec-16] EMServiceServlet - 109 : 142 :
DeviceSecurityMode: 1 HomeCluster SecurityMode: 0
2019-01-26 14:34:43,093 INFO [http-bio-8443-exec-16] EMServiceServlet - 109: authenticate pin
for rak
2019-01-26 14:34:43,112 INFO [http-bio-8443-exec-16] EMServiceServlet - 109 : 142 : atbabu:
EmccHomeLogin : Performing Home Device Login for :rak
2019-01-26 14:34:43,112 INFO [http-bio-8443-exec-16] EmccData - 109: getRemoteClusterInfo: Pkid
for cluster atbabu is d23ef9ea-8392-dbbf-61db-1d9e1d505243
2019-01-26 14:34:43,112 DEBUG [http-bio-8443-exec-16] EmccData - 109: getRemoteClusterInfo:
Hostname = 10.106.125.174
2019-01-26 14:34:43,112 INFO [http-bio-8443-exec-16] Authenticator -
109:Authenticator.userExists: UserID: rak- Calling cmdb.isLocalUser(osUserID)...
2019-01-26 14:34:43,112 DEBUG [http-bio-8443-exec-16] CMDatabase - Userid being passed to the
query is rak
2019-01-26 14:34:43,113 DEBUG [http-bio-8443-exec-16] CMDatabase - CMDatabase.isLocalUser() :
SELECT islocaluser FROM EndUser WHERE my_lower(userid)= my_lower(?) : parameter ( 'rak' )
2019-01-26 14:34:43,119 DEBUG [http-bio-8443-exec-16] CMDatabase - PKID for the ROW is
2019-01-26 14:34:43,119 DEBUG [http-bio-8443-exec-16] CMDatabase - CMDatabase.isLocalUser() :
isLocaluser : true
2019-01-26 14:34:43,119 DEBUG [http-bio-8443-exec-16] CMDatabase - is Local user value :true
2019-01-26 14:34:43,120 INFO [http-bio-8443-exec-16] Authenticator -
109:Authenticator.userExists: UserID: rak- cmdb.isLocalUser(osUserID) returned
2019-01-26 14:34:43,120 DEBUG [http-bio-8443-exec-16] CMDatabase - Userid being passed to the
query is rak
2019-01-26 14:34:43,122 INFO [http-bio-8443-exec-16] CMDatabase -
CMDatabase:getLoggedInDeviceNames: query=SELECT decode(d.tkclass,249,emcd.devicename,d.name)
name FROM Device d left outer join emccdynamic emcd on d.pkid = emcd.fkdevice INNER JOIN
extensionmobilitydynamic emd ON d.pkid=emd.fkdevice AND emd.fkenduser= ? AND emd.logintime is
NOT NULL AND D.tkDeviceProfile=0 : parameter ( '952a2d32-14e5-fd43-d192-742c4a50d5ab' )
2019-01-26 14:34:43,129 DEBUG [http-bio-8443-exec-16] EMServiceServlet - 109: 142: atbabu:
performHomeDeviceLogin for deviceName: SEPF8A5C59E1126
```

不允許同一使用者第二次出現。

```
2019-01-26 14:38:05,841 ERROR [http-bio-8443-exec-12] EMServiceServlet - 111: Not allowed to log
into multiple devices.
2019-01-26 14:38:05,841 INFO [http-bio-8443-exec-12] EMServiceServlet - 111: EmccRequest
Processing Time: 38
2019-01-26 14:38:05,842 ERROR [http-bio-8443-exec-12] EMServiceServlet - 111: Error processing
EMCC request :com.cisco.emservice.PolicyValidatorException: Not allowed to log into multiple
devices.
2019-01-26 14:38:05,842 DEBUG [http-bio-8443-exec-12] EMServiceServlet - 111: EMCC: Decrement
Counter
2019-01-26 14:38:05,842 INFO [http-bio-8443-exec-12] Counters - 111: Counters --
>111,31,4,18,0,0,0,15,3,0,33,0,71,3,0
```

## 訪問群集

```
2019-01-26 14:34:53,341 DEBUG [mjunnur ] EmccCommunicator - 142: postMsg - Url =
https://10.106.106.200:8443/emservice/EMServiceServlet m_iHttpsTimeout = 120000
2019-01-26 14:34:53,558 DEBUG [mjunnur ] EmccCommunicator - 142: Retrieved actual user from
remote cluster : 'rak'
2019-01-26 14:34:53,558 DEBUG [mjunnur ] EmccCommunicator - 142: performCheckUser: Num of DP is
: 1
2019-01-26 14:34:53,558 DEBUG [mjunnur ] CheckUserThread - 142: PerformCheckUser: Home Cluster
for UserId: rak is :https://10.106.106.200:8443/emservice/EMServiceServlet
2019-01-26 14:34:53,559 DEBUG [http-bio-8443-exec-16] EmccData - 142: cacheUserToCluster for
user: rak
2019-01-26 14:34:53,560 INFO [http-bio-8443-exec-16] EMServiceServlet - 142: EmccLoginRequest:
Home Cluster URL for User:rak is : https://10.106.106.200:8443/emservice/EMServiceServlet
2019-01-26 14:34:53,560 INFO [http-bio-8443-exec-16] EMServiceServlet - 142: EmccLoginRequest:
Device Profile for this user is: Prerna-EM
2019-01-26 14:34:53,560 DEBUG [http-bio-8443-exec-16] EMServiceServlet - 142:getEmccLoginInfo -
SEPF8A5C59E1126
2019-01-26 14:34:53,560 DEBUG [http-bio-8443-exec-16] DBRequestor - 142: getEmccLoginInfo: Query
= execute function getEmccLoginInfo('SEPF8A5C59E1126')
2019-01-26 14:34:53,576 DEBUG [http-bio-8443-exec-16] DBRequestor - 142: <VEMAPP>
```

## 登入成功。

```
2019-01-26 14:34:53,822 DEBUG [http-bio-8443-exec-16] EMServiceServlet - 142: EmccLoginRequest:
Result:
<?xml version="1.0"?>
<response>
<success/>
</response>
```

## 從第二部電話請求登入。

```
2019-01-26 14:38:16,081 DEBUG [mjunnur ] EmccCommunicator - 145: postMsg - Url =
https://10.106.106.200:8443/emservice/EMServiceServlet m_iHttpsTimeout = 120000
2019-01-26 14:38:16,287 DEBUG [mjunnur ] EmccCommunicator - 145: Retrieved actual user from
remote cluster : 'rak'
2019-01-26 14:38:16,288 DEBUG [mjunnur ] EmccCommunicator - 145: performCheckUser: Num of DP is
: 1
2019-01-26 14:38:16,288 DEBUG [mjunnur ] CheckUserThread - 145: PerformCheckUser: Home Cluster
for UserId: rak is :https://10.106.106.200:8443/emservice/EMServiceServlet
2019-01-26 14:38:16,290 DEBUG [http-bio-8443-exec-2] EmccData - 145: cacheUserToCluster for
user: rak
2019-01-26 14:38:16,291 INFO [http-bio-8443-exec-2] EMServiceServlet - 145: EmccLoginRequest:
Home Cluster URL for User:rak is : https://10.106.106.200:8443/emservice/EMServiceServlet
2019-01-26 14:38:16,291 INFO [http-bio-8443-exec-2] EMServiceServlet - 145: EmccLoginRequest:
```

Device Profile for this user is: Prerna-EM

```
2019-01-26 14:38:16,291 DEBUG [http-bio-8443-exec-2] EMServiceServlet - 145:getEmccLoginInfo -
SEPB000B4BA01F1
2019-01-26 14:38:16,292 DEBUG [http-bio-8443-exec-2] DBRequestor - 145: getEmccLoginInfo: Query
= execute function getEmccLoginInfo('SEPB000B4BA01F1')
2019-01-26 14:38:16,328 DEBUG [http-bio-8443-exec-2] DBRequestor - 145: <VEMAPP>
```

不允許第二個使用者登入。

```
2019-01-26 14:38:16,449 DEBUG [http-bio-8443-exec-2] EmccCommunicator - 145:
parseHomeLoginResponse
2019-01-26 14:38:16,452 ERROR [http-bio-8443-exec-2] EmccCommunicator - 145:
handleEmccErrorResponse - 25: Not allowed to log into multiple devices.
2019-01-26 14:38:16,452 ERROR [http-bio-8443-exec-2] EMServiceServlet - 145: Not allowed to log
into multiple devices.
2019-01-26 14:38:16,452 INFO [http-bio-8443-exec-2] EMServiceServlet - 145: EmccRequest
Processing Time: 438
2019-01-26 14:38:16,453 ERROR [http-bio-8443-exec-2] EMServiceServlet - 145: Error processing
EMCC request :com.cisco.emservice.MyException: Not allowed to log into multiple devices.
2019-01-26 14:38:16,453 DEBUG [http-bio-8443-exec-2] EMServiceServlet - 145: EMCC: Decrement
Counter
2019-01-26 14:38:16,453 INFO [http-bio-8443-exec-2] Counters - 145: Counters --
>145,96,29,10,0,0,0,33,34,0,0,0,32,0,21
```

### 案例3:多個登入行為設定為自動註銷

#### 主群集

```
2019-01-26 15:24:47,080 INFO [Thread-6861 ] EmccVisitingLogoutThread - 117EmccLogoutThread:
Logout Request sent to visitng cluster :
https://10.106.125.176:8443/emservice/EMServiceServlet
2019-01-26 15:24:47,080 DEBUG [Thread-6861 ] EmccCommunicator - 117: performDoLogout
2019-01-26 15:24:47,080 DEBUG [Thread-6861 ] EmccCommunicator - 117: formVisitingLogoutXml :
<emcc><visitingLogout><requestNum>117</requestNum><deviceName>SEPF8A5C59E1126</deviceName><clust
erId>mjunnur</clusterId></visitingLogout></emcc>
2019-01-26 15:24:47,080 DEBUG [Thread-6861 ] EmccCommunicator - 117: postMsg - Url =
https://10.106.125.176:8443/emservice/EMServiceServlet m_iHttpsTimeout = 0
2019-01-26 15:24:47,139 DEBUG [http-bio-8443-exec-12] DBRequestor - 117: t
2019-01-26 15:24:47,140 INFO [http-bio-8443-exec-12] LogoutScheduler - 117:
LogoutScheduler.removeLogout(): Dev: SEPF8A5C59E1126- removed logout
2019-01-26 15:24:47,140 INFO [http-bio-8443-exec-12] DBRequestor - 117:
DBRequestor.logoutDevName: Dev: SEPF8A5C59E1126- deviceLogout returned
2019-01-26 15:24:47,141 DEBUG [http-bio-8443-exec-12] EMServiceServlet - 117: 151: atbabu:
performHomeDeviceLogin for deviceName: SEPB000B4BA01F1
2019-01-26 15:24:47,141 INFO [http-bio-8443-exec-12] EMServiceServlet - 117:
computeLoginDuration: Device: SEPB000B4BA01F1 EMCC Request: true EM API Request: false Duration
Requested through EM API: -1
2019-01-26 15:24:47,143 INFO [http-bio-8443-exec-12] CMDatabase -
CMDatabase.getEndUserEmMaxLoginTime() : SELECT EmMaxLoginTime FROM EndUser WHERE userid=? :
parameters ( 'rak')
2019-01-26 15:24:47,152 INFO [http-bio-8443-exec-12] EMServiceServlet - Effective Login Duration
:36000 seconds
```

要配置EM，請參閱以下連結：

<http://www.learnCisco.net/courses/cucm-basics/mobility-features/extension-mobility-configuration.html>

有關EMCC的完整配置，請參閱以下連結：

<https://www.cisco.com/c/en/us/support/docs/unified-communications/unified-communications-manager-callmanager/200599-Enable-UC-servers-for-Extension-Mobility.html>