



Intel® Smart Connect Technology Remote Wake with MeshCentral & Remote Wake Service

June 2013

CDI/IBP #: 514349

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Intel® Smart Connect Technology Remote Wake using MeshCentral

June 2013



Intel® Remote Wake using MeshCentral.com

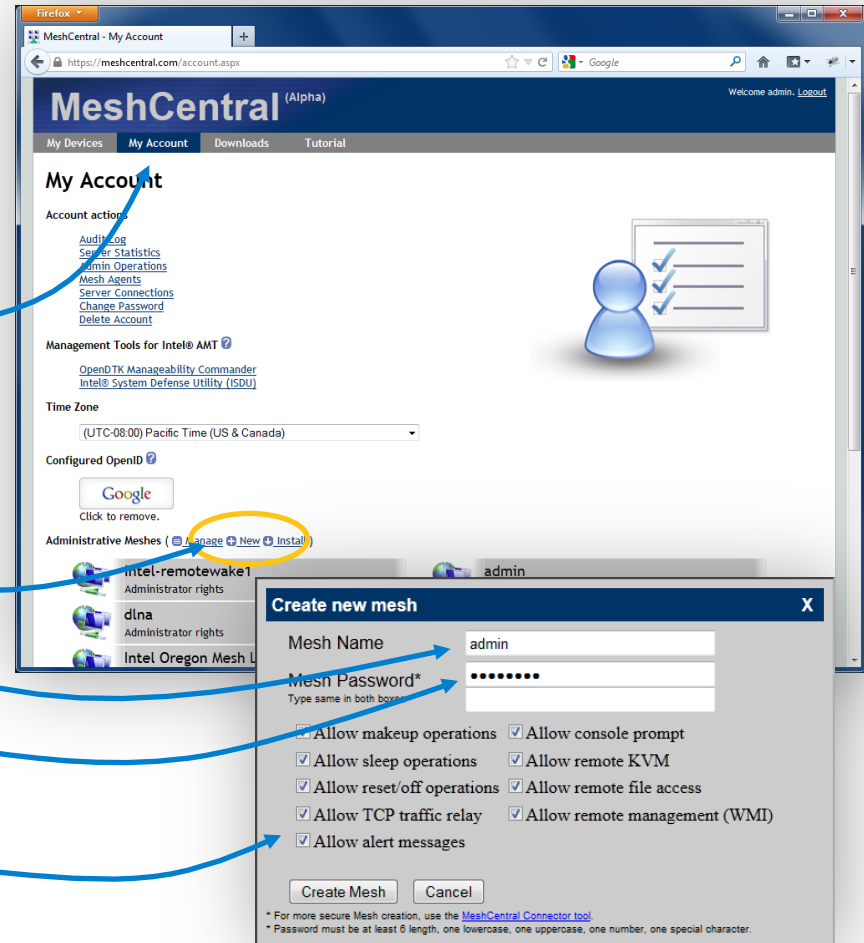
- MeshCentral.com is a web based remote management web site.
- It's free to use for anyone.
- Development is ongoing.
- Intel licenses the site's technology 3rd parties.



For feedback/questions about MeshCentral please email: ylian.saint-hilaire@intel.com

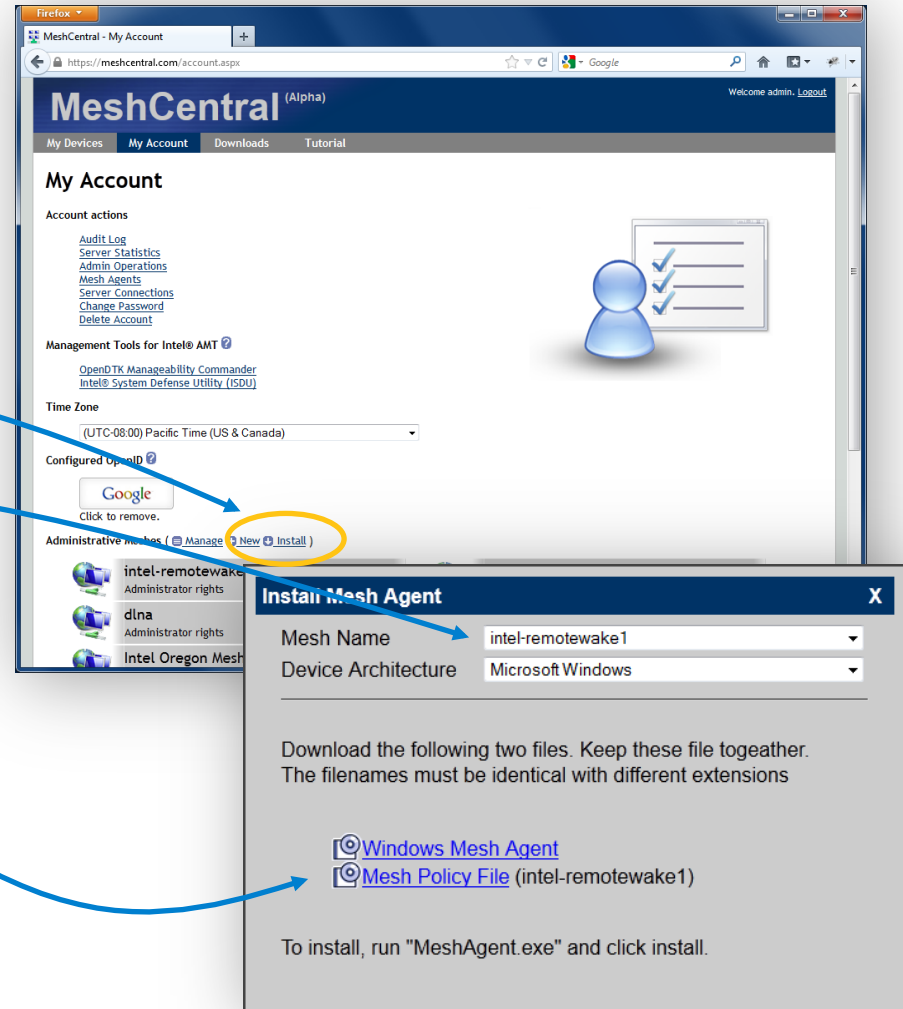
MeshCentral.com - Creating a Mesh

- Login to Meshcentral.com.
- Create a new account.
- Click the "Account" tab.
- Click on "New"
- Type a mesh name.
- Type in a mesh password.
- Select all options & click ok.



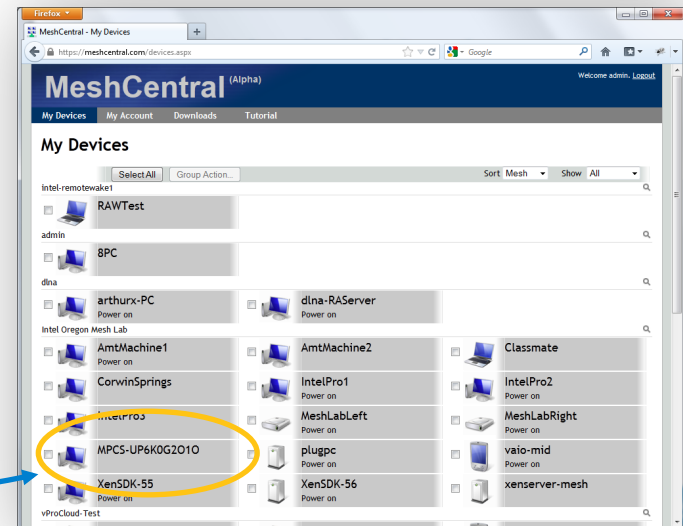
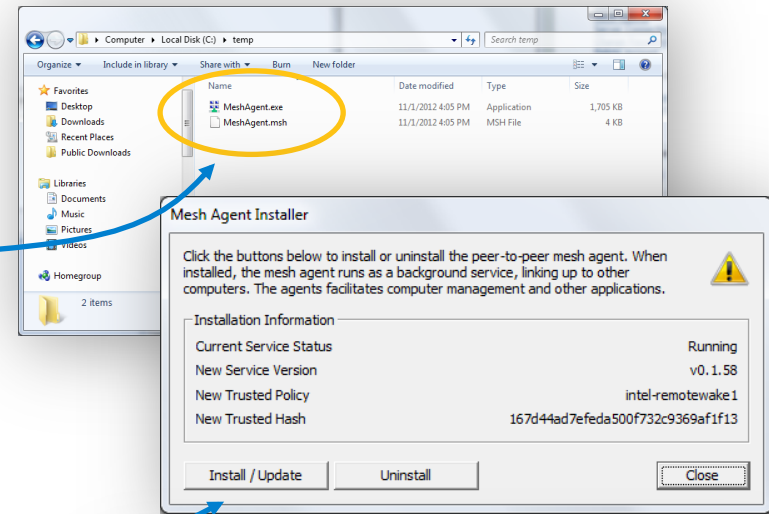
MeshCentral.com - Downloading the agent

- Click "Install"
- Select the mesh.
- Download both files.



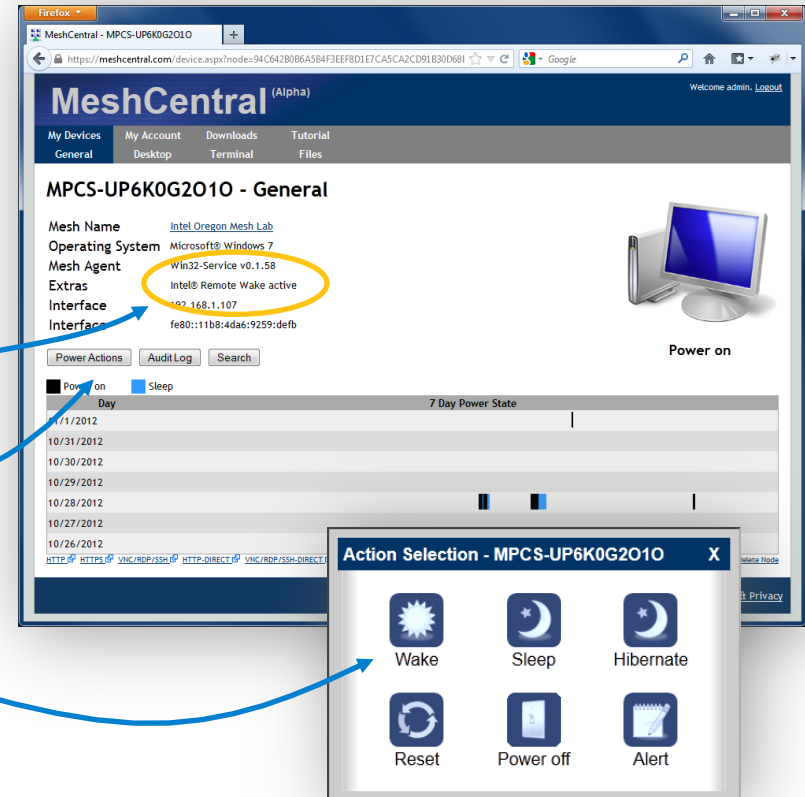
MeshCentral.com - Installing the agent

- Both files in same folder
- Run MeshAgent.exe
- Click "Install / Update"
- Wait one minute...
- New machine in "My Devices"



MeshCentral.com - Performing power control

- Check "Intel Remote Wake"
- Click on "Power Actions"
- Click "Wake" or "Sleep"



MeshCentral.com - Mobile Options

Use a mobile device or tablet to monitor & control power state.

- On Android, search "Meshcentral" on Google Play.
- On any mobile device <https://meshcentral.com/m>
- On iOS, use the mobile site and "Add to Home Screen"



MeshCentral.com - Online Tutorials

Tutorial videos are available on YouTube.

- [Intel® Smart Connect Technology Remote Wake Video](http://www.youtube.com/watch?v=Yt-3BICp0tE)
- [MeshCentral - Getting Started](http://www.youtube.com/watch?v=t4U_IHkByzA)
- [MeshCentral - Using features](http://www.youtube.com/watch?v=5ZZ-m_mQV5E)

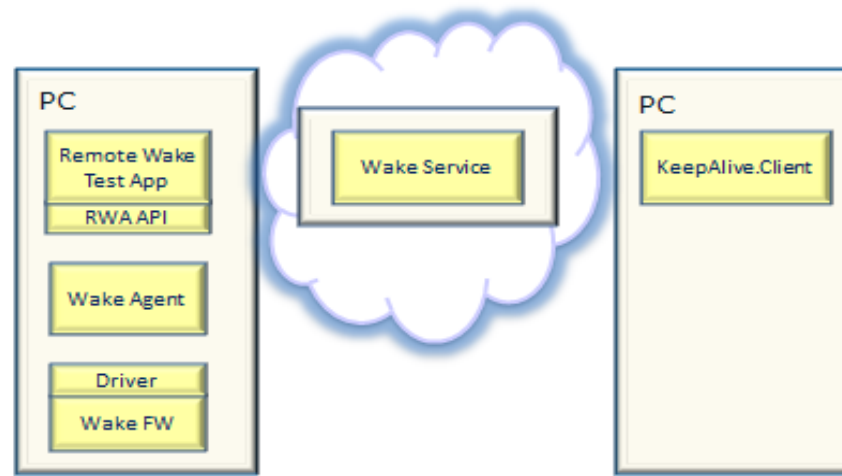


Intel® Smart Connect Technology Remote Wake using Remote Wake Test Application



Remote Wake Testing

- The Remote Wake Test requires two PC's for end to end testing
 - Non Proxy Service based Internet Connection
 - First PC installed with Remote Wake Test Application and second PC installed with Wake Service Client (KeepAlive.Client)



- Remote Wake Test Application and Wake Service Client are available in the Intel® Smart Connect Technology Compliancy Kit.
- Refer to the Intel® Smart Connect Technology Compliance Test Plan (IBL# 515425) for more detailed information

Remote Wake Test Application

- RWTestAppMFC.exe
- Located in the Intel Smart Connect Technology Compliancy Kit:
 - “Tools \ <iSCT Release> \ 32bit” for 32 bit version
 - “Tools \ <iSCT Release> \ 64bit” for 64 bit version
- RWTestAppMFC issues an “Enable” command to the Wake Agent.
- The Wake Agent then issues a ‘Register’ command to the Wake Service.

Remote Wake Test Application (Cont.)

- The Wake Agent sends the Session ID to the Test App
- Session ID is used by Wake service client (described on next slide) to wake the system back to S0 state
- PlatformWakeState "Available" confirms remote wake is active on the SUT

The screenshot displays the 'Remote Wake Test App' window. The 'Session Info' section is highlighted with a red rectangle, showing the SessionID 'FC227A0D-0AB7-F112-811A-2C41203AF483' and the Wake Server URL 'https://wr-1.anytimeaccess.intel.com/sessions'. The 'PlatformWakeState' section shows 'AVAILABLE' for both LAN and WLAN, with 'WLAN' also showing 'NO_SUBSTATUS'. The 'Context Info' section shows 'S0 Duration Secs' as 0, 'Sx Duration Mins' as 120, 'Platform Type' as 'mobile', and 'Hibernate supported' as 'Yes'. The 'Application Status' section shows 'AppInstanceID' as 'DF96F0E1-1697-44D8-BD0F-0DEE7203F022' and checkboxes for 'Wake To S0', 'Enabled', 'Busy', and 'Ready'.

Application Status			
AppInstanceID	DF96F0E1-1697-44D8-BD0F-0DEE7203F022		
<input type="checkbox"/> Wake To S0	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Busy	<input checked="" type="checkbox"/> Ready

Session Info			
SessionID	FC227A0D-0AB7-F112-811A-2C41203AF483		
Wake Server URL	https://wr-1.anytimeaccess.intel.com/sessions		
PlatformWakeState	AVAILABLE	LAN	AVAILABLE
	WLAN	NO_SUBSTATUS	OTHER NO_SUBSTATUS

Context Info			
S0 Duration Secs	0	Sx Duration Mins	120
Platform Type	mobile	Hibernate supported	Yes

Log output (right side of the window):

```
3:18:39 PM 00000000-0000-0000-0000-000000000000 AVAILABLE LAN:AVAILABLE WLAN:NO_SL
3:18:41 PM 45E8ADA7-5A50-D8CE-33C3-ABC459A4B698 AVAILABLE LAN:AVAILABLE WLAN:NO_
3:23:20 PM 45E8ADA7-5A50-D8CE-33C3-ABC459A4B698 NOT_WAKEABLE LAN:NO_SUBSTATUS V
3:23:20 PM 00000000-0000-0000-0000-000000000000 NOT_WAKEABLE LAN:NO_SUBSTATUS WL
EventGenericWake
3:23:20 PM 00000000-0000-0000-0000-000000000000 NOT_WAKEABLE LAN:NO_SUBSTATUS WL
3:23:25 PM 00000000-0000-0000-0000-000000000000 AVAILABLE LAN:AVAILABLE WLAN:NO_SL
3:23:26 PM 2709CDD8-2381-B7B8-8257-6866F05406F9 AVAILABLE LAN:AVAILABLE WLAN:NO_SL
3:36:11 PM 2709CDD8-2381-B7B8-8257-6866F05406F9 NOT_WAKEABLE LAN:NO_SUBSTATUS W
3:36:11 PM 00000000-0000-0000-0000-000000000000 NOT_WAKEABLE LAN:NO_SUBSTATUS WL
EventGenericWake
3:36:11 PM 00000000-0000-0000-0000-000000000000 NOT_WAKEABLE LAN:NO_SUBSTATUS WL
3:36:16 PM 00000000-0000-0000-0000-000000000000 AVAILABLE LAN:AVAILABLE WLAN:NO_SL
3:36:38 PM FC227A0D-0AB7-F112-811A-2C41203AF483 AVAILABLE LAN:AVAILABLE WLAN:NO_S
```

Wake Service Client

- Wake Service Client will be installed on 2nd PC
- Located in the Intel Smart Connect Technology Compliancy Kit "Tools \ WakeServiceClient" directory
- Open WakeService.KeepAlive.Client.exe in CMD prompt
- Basic Commands for Remote Wake:
 - "s" + Session ID for System status
 - Picture "1" shows status of SUT as "SLEEPING"
 - "w" + Session ID for waking the System remotely
 - Picture "2" shows wake command send to SUT to wake from S3

```
Interactive WakeService client.
<To send keep-alives in non-interactive mode, add commandline flag -n
on command line>
r: Register new session
g: Get current session details
k: Start sending keep alives
u: Unregister current session
s: Get Session state
w: Send wake with no message to session
m: Send wake with message to session
a: Subscribe to a session
b: Unsubscribe from a session
c: Read Updates
d: Acknowledge Updates
q: Quit

s
Enter session id:
fc227a0d-0ab7-f112-811a-2c41203af483

Session id: fc227a0d-0ab7-f112-811a-2c41203af483
Status: SLEEPING
Extended Status:
LastChange: 2012-09-15T01:53:23.696Z
Last KA Received: 2012-09-15T01:53:23.696Z
KeepAlive Period: 30
Wakeable In: 91
```

```
C:\Windows\system32\cmd.exe - WakeService.KeepAlive.Client.exe

C:\Users\clord1\Desktop\executable>WakeService.KeepAlive.Client.exe

Interactive WakeService client.
<To send keep-alives in non-interactive mode, add commandline flag -n
on command line>
r: Register new session
g: Get current session details
k: Start sending keep alives
u: Unregister current session
s: Get Session state
w: Send wake with no message to session
m: Send wake with message to session
a: Subscribe to a session
b: Unsubscribe from a session
c: Read Updates
d: Acknowledge Updates
q: Quit

w
Enter session id:
fc227a0d-0ab7-f112-811a-2c41203af483
Wake sent
```

