



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

June 2013

CDI/IBP #: 514349

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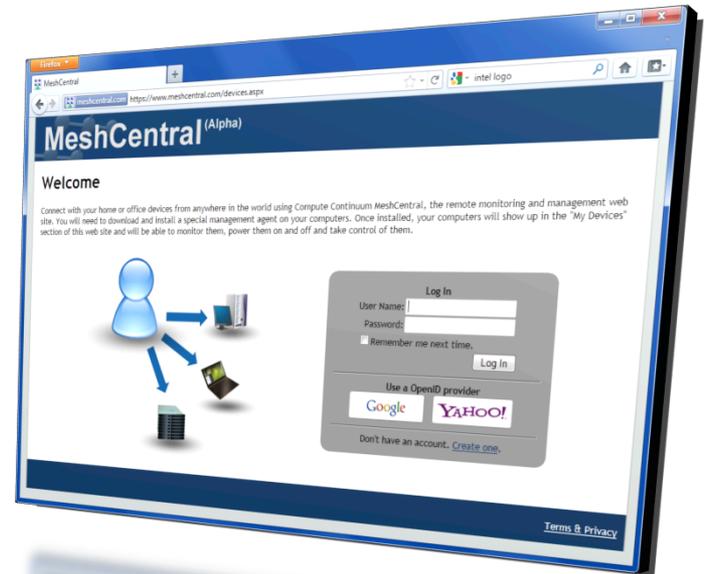
Intel® Smart Connect Technology Remote Wake using MeshCentral

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Intel® Remote Wake using MeshCentral.com

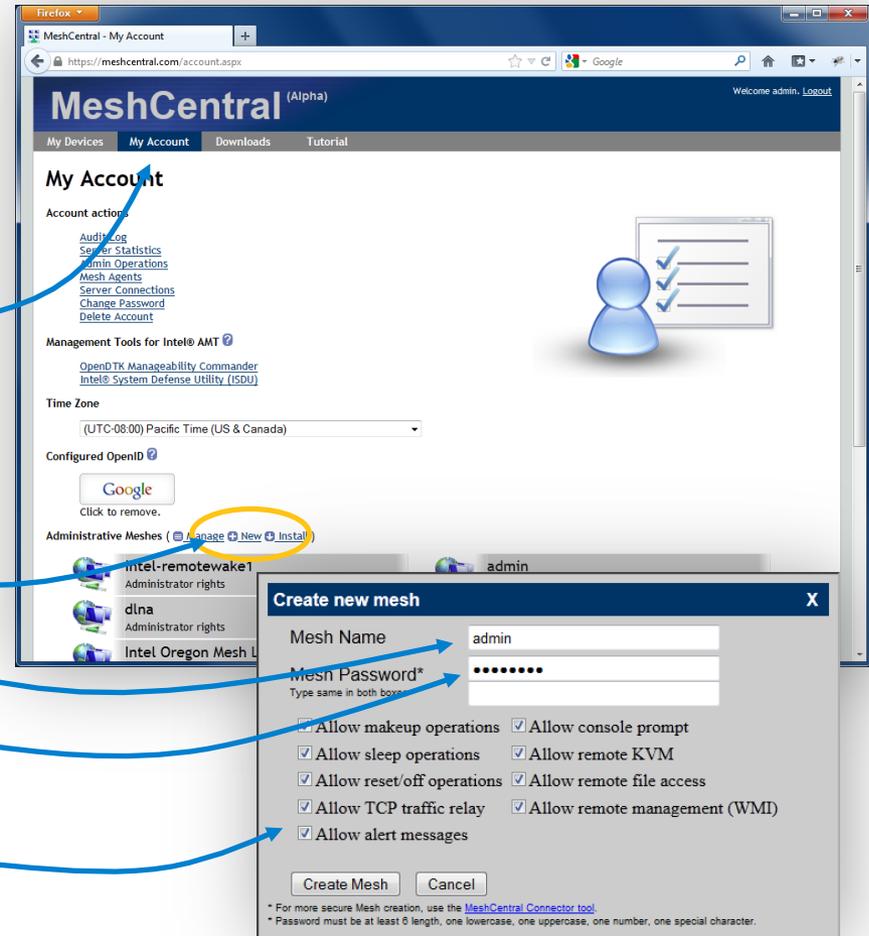
- MeshCentral.com is a web based remote management web site.
- It's free to use for anyone.
- Development is ongoing.
- Intel licenses the site's technology 3rd parties.



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.



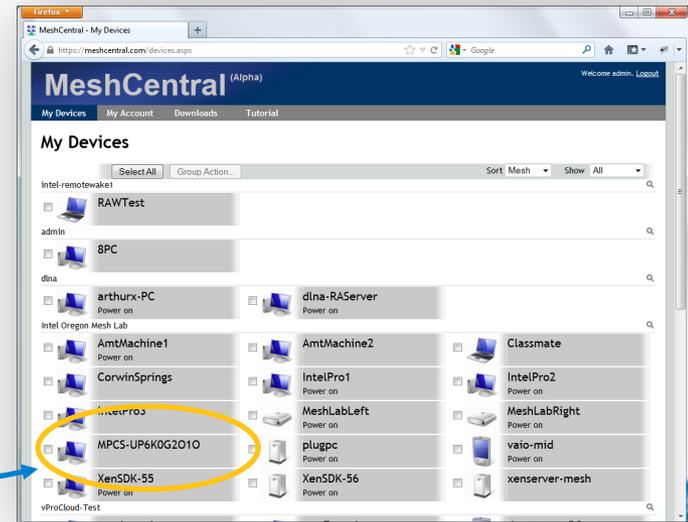
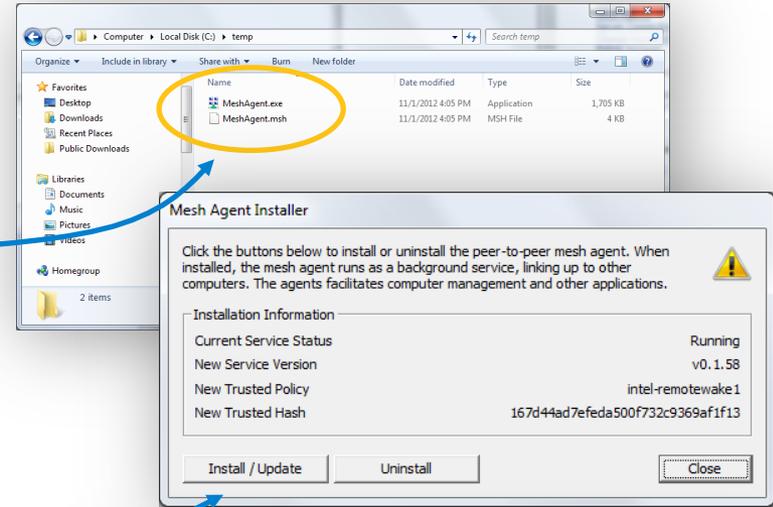
MeshCentral.com - Downloading the agent

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

The image shows a Firefox browser window displaying the MeshCentral.com 'My Account' page. The page has a navigation bar with 'My Devices', 'My Account', 'Downloads', and 'Tutorial'. Under 'My Account', there are sections for 'Account actions' (Audit Log, Server Statistics, Admin Operations, Mesh Agents, Server Connections, Change Password, Delete Account), 'Management Tools for Intel® AMT' (OpenDTK Manageability Commander, Intel® System Defense Utility (ISDU)), and 'Time Zone' (UTC-08:00 Pacific Time (US & Canada)). A 'Configured OpenID' section contains a Google button and a 'Click to remove.' link. The 'Administrative Meshes' section is highlighted with a yellow circle, showing a 'New Install' button. A blue arrow points from the 'New Install' button to the 'Install Mesh Agent' dialog box. The dialog box has a title bar 'Install Mesh Agent' and a close button 'X'. It contains two dropdown menus: 'Mesh Name' set to 'intel-remotewake1' and 'Device Architecture' set to 'Microsoft Windows'. Below the dropdowns, there is a text instruction: 'Download the following two files. Keep these file together. The filenames must be identical with different extensions'. Two files are listed: 'Windows Mesh Agent' and 'Mesh Policy File (intel-remotewake1)'. A blue arrow points from the 'Download both files.' instruction in the list to these two files. At the bottom, it says 'To install, run "MeshAgent.exe" and click install.'

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"

The screenshot displays the MeshCentral web interface for a device named 'MPCS-UP6K0G2010'. The 'Extras' section is highlighted with a yellow circle, showing 'Intel® Remote Wake active'. Below this, the 'Power Actions' button is visible. A '7 Day Power State' chart shows the device's power status over time. An 'Action Selection' dialog box is open, showing options for 'Wake', 'Sleep', 'Hibernate', 'Reset', 'Power off', and 'Alert'. Blue arrows point from the list on the left to the 'Intel Remote Wake' text, the 'Power Actions' button, and the 'Wake' button in the dialog box.

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)
<http://www.youtube.com/watch?v=Yt-3BICp0tE>
- [MeshCentral - Getting Started](http://www.youtube.com/watch?v=t4U_IHkBzyA)
http://www.youtube.com/watch?v=t4U_IHkBzyA
- [MeshCentral - Using features](http://www.youtube.com/watch?v=5ZZ-m_mQV5E)
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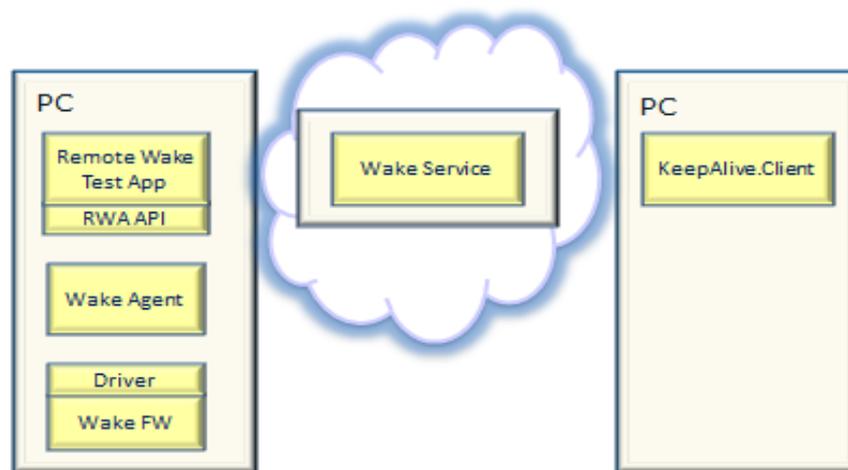


Intel® Smart Connect Technology Remote Wake using Remote Wake Test Application



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)



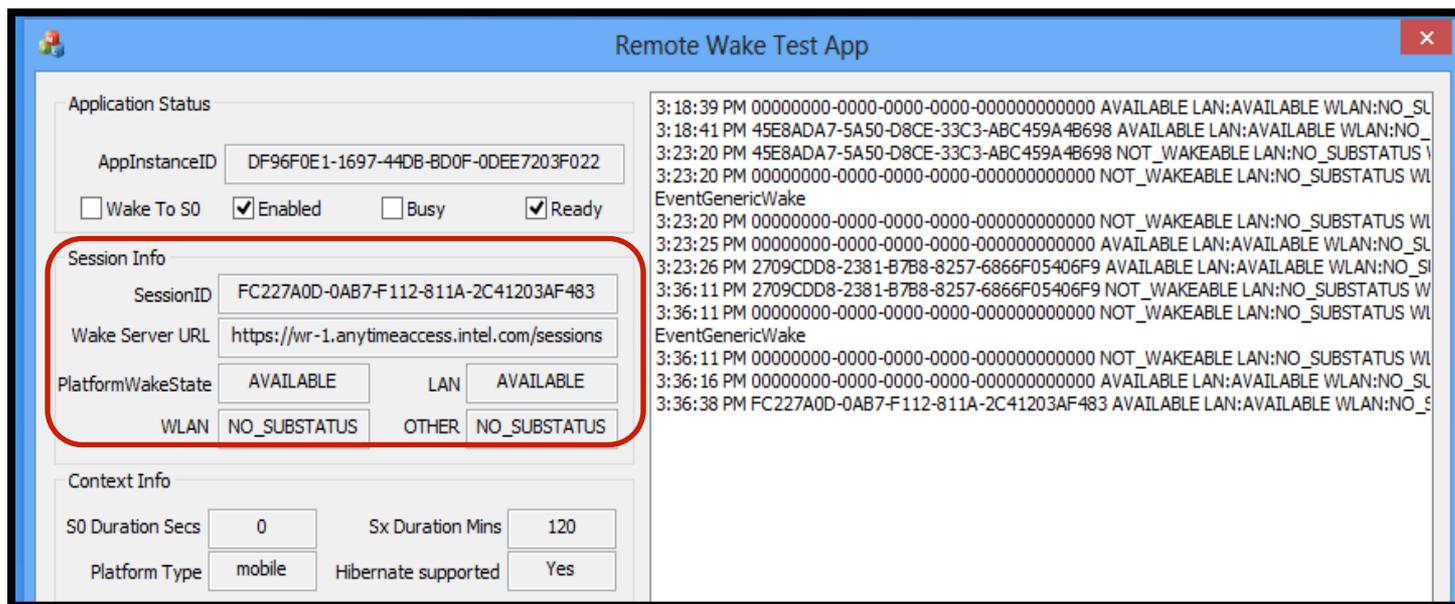
- Remote Wake Test Application and Wake Service Client are available in the Intel® Smart Connect Technology Compliancy Kit.
- Refer to the Intel® Smart Connect Technology Compliance Test Plan (IBL# 515425) for more detailed information

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



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
To wake up another session non-interactively, specify session id and/or messa
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
To wake up another session non-interactively, specify session id and/or messa
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
-----
```

