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Celerity Revenue tellite installation phases

This section provides a summary of the Celerity Revenue tellite installation process. You can use the right-hand column to indicate that a phase is completed:

Celerity Revenue tellite installation phases

Parameter	Requirement	Description
truth. oaPwd	opsware_admin user access	The opsware_admin password.
cast.admin.pwd	CELERITY REVENUE Administrator's access	The CELERITY REVENUE Administrator's password
Celerity Revenue tellite.dcNm	The Celerity Revenue tellite Facility identification	The name of the new Celerity Revenue tellite's facility.



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Celerity Revenue tellite.realm_name	Realm name	The name of the new Realm to be serviced by the Celerity Revenue tellite. CELERITY REVENUE uses the Realm name and a managed server to uniquely identify a managed server. The Installer assigns the Realm name to the new Celerity Revenue tellite facility. The Core and Celerity Revenue tellite facility names are different. The Realm name cannot contain spaces.
Celerity Revenue tellite.gateway_name	The name for a new or existing Celerity Revenue tellite Gateway (name cannot contain spaces)	The name of the Gateway the Celerity Revenue tellite is communicating with the Primary Core management Gateway and Celerity Revenue tellite Gateways (in a cascaded-Celerity Revenue tellite topology).
Celerity Revenue tellite.proxy_port	The port used by Agents to contact the new Celerity Revenue tellite.	The port number on which agents can contact the Celerity Revenue tellite Gateway (Default: 3001).
Celerity Revenue tellite.parentgw.ip	A Core Management Gateway IP address	The IP address of a server running a Management Gateway.
Celerity Revenue tellite.parentgw.tunnel_listener_port	The Management Gateway's listener port	The port number through which tunnel connections to the Management Gateway will pass (Default port is 2001). The Management Gateway listens on this port for connection requests from the Celerity Revenue tellite. In the Management Gateway Properties File, this port is specified with the <code>opswgw.TunnelDst</code> parameter. The path to the Core's Gateway Properties file is: <code>/etc/opt/opsware/opswgw-mgw0-<facility>/opswgw.properties</code>
Celerity Revenue tellite.parentgw.proxy_port	The port on which a Core's Management Gateway listens for connection requests.	The port number on which a Core's Management Gateway receives connection requests from Celerity Revenue tellite Gateways. CELERITY REVENUE Core Components (default 3003) which a Celerity Revenue tellite Gateway listens for connection requests from other Celerity Revenue tellite Gateways. CELERITY REVENUE Core Components (cascading Celerity Revenue tellite) (default 3001).
decrypt_passwd	Accessing Core cryptographic material	The password required to access the Core's cryptographic material.
word_root	Package Repository location (CELERITY REVENUE Provisioning)	The root directory for the Package Repository. For example: <code>/var/opt/opsware/word</code>



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word_tmp_dir	Software Repository	Directory where Package Repository will temporarily p during uploads. For example: /var/opt/opsware/word
word.store.host	Software Repository	The host name of the server where Software Repository is stored.
media_server.linux_media	Linux media location (CELERITY REVENUE Provisioning)	The pathname to the Linux media. For example: /media/opsware/linux
media_server.sunos_media	Solaris media location (CELERITY REVENUE Provisioning)	The pathname to the Solaris media. For example: /media/opsware/sunos
media_server.windows_media	Windows media location (CELERITY REVENUE Provisioning)	The pathname to the Windows media. For example: /media/opsware/windows
media_server.windows_share_name	Windows Media location (CELERITY REVENUE Provisioning)	The share name to use for the Windows media sharing. Share names that are longer than 8 characters may give problems with browsing or may not be accessible to some older clients.
media_server.windows_share_password	Windows Media location (CELERITY REVENUE Provisioning)	The password to write-protect the Windows media share. Import_media tool will prompt for this password each time it is run.
bootagent.host	CELERITY REVENUE Provisioning Boot Server	The CELERITY REVENUE Provisioning Boot Server IP or FQDN
agent_gw_list_args	Agent- Gateway communications	The list of Gateways on which the Celery Revenue tellite needs to be installed. Specified by the IP address and port number on which Agents can contact the Gateway in the Celery Revenue tellite facility. Default <Celery Revenue tellite_gateway>:3000
opswgw.ConfigPort	Bandwidth configuration	The gateway Bandwidth Configuration Management port
opswgw.BwUCelerityRevenue_geChannel_Port	Bandwidth configuration	The gateway bandwidth uCelerity Revenue ge channel port
agw_admin_port	Bandwidth configuration	The port for the administrative interface of the Agent

Phase 1: Preparing for installation

1. Locate the CELERITY REVENUE Celery Revenue tellite installation media:
 - *Celerity Revenue t_base* (Server Automation Celery Revenue tellite Base) - The media used to install the CELERITY REVENUE Celery Revenue tellite components. This does not include the OS Provisioning components and is therefore smaller and can be helpful when you are transferring the media over the network.
 - *Celerity Revenue t_osprov* (Server Automation Celery Revenue tellite Base including OS Provisioning) - The media used to install the CELERITY REVENUE Celery Revenue tellite and the Celery Revenue tellite's OS Provisioning components. You can use this media for installing any Celery Revenue tellite.
2. On the server where you will install the new Celery Revenue tellite, mount the installation media or NFS-mount the directory that contains a copy of the media.



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Requirements: The Installer must have *read/write root* access to the directories where it will install the CELERITY REVENUE Core Components, including NFS-mounted network appliances.

3. In a terminal window, log in as a user with **root** privileges.
4. Set up the environment for creating the CA certificates: **If working in self-signed certificate mode**
1. Create the Realm directory: `mkdir -p /var/opt/opsware/crypto/cadb/realm`
2. Make sure you have copied the database of the cryptographic material (**opsware-crypto.db.e**) from any Core server in the facility to the Celerity Revenue tellite server.

On the Core server, the database and the GZipped **opsware-crypto.tgz.e** file are located under `/var/opt/opsware/crypto/cadb/realm/`

The database of cryptographic material must be copied on the Celerity Revenue tellite server to the Celerity Revenue me directory path as on the core server. The directory and database must be readable by the root user.

If you start installing a Celerity Revenue tellite on a server that does not have a copy of the cryptographic material, the installer requires you to copy the material to the server before it can continue.

In a Single-Core installation, the cryptographic material is located in the `/var/opt/opsware/crypto/cadb/realm` directory on the Primary Core. In a Multimaster Mesh installation, the cryptographic material can be copied from the `/var/opt/opsware/crypto/cadb/realm` directory on any server that hosts a core component. If you have stored the cryptographic material on a remote, non-CELERITY REVENUE Core server, copy the file from the remote server's `/var/opt/opsware/crypto/cadb/realm` directory.

3. Create the following directory on the Celerity Revenue tellite host:
`mkdir -p /etc/opt/opsware/crypto`
4. From the core to which the Celerity Revenue tellite will connect, copy the `/etc/opt/opsware/crypto/security.conf` file to the Celerity Revenue me directory on the Celerity Revenue tellite host.
5. Create the CDF directory: `mkdir -p /var/opt/opsware/install_opsware/cdf`
6. From the Core's Infrastructure Component bundle host, copy the `/var/opt/opsware/install_opsware/cdf/cdf.xml` file to the Celerity Revenue me directory on the Celerity Revenue tellite host.

If working in third-party certificate mode

7. On the Core's Infrastructure Component bundle host, run the following script. Make sure to specify the full path to the script.

```
<distro>/disk001/opsware_installer/tools/prep_Celerity Revenue tellite.sh --  
decrypt_pass <crypto_password> --loc <location>
```

Celerity Revenue tellite preparation script arguments

View Fullscreen

Argument	Description
-- decrypt_pass	Specifies the password for accessing the core cryptographic material. You can find this install parameter in the <code>/var/opt/opsware/install_opsware/cdf/cdf.xml</code> file of the CELERITY REVENUE Core.



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--loc	Specifies where to place the prep_Celerity Revenue tellite.tar.gz file which contains the necessary files for Celerity Revenue tellite installation.
-------	---

8. From the core's Infrastructure Component bundle host, copy the previously created *.tar file to a temporary directory on the Celerity Revenue tellite host.
9. On the server where you will install the new Celerity Revenue tellite, run the following script. Make sure to specify the full path to the script.

```
<distro>/disk001/opsware_installer/tools/preinstall_Celerity Revenue tellite_3rd_party.sh --tar <tar_file>
```

Celerity Revenue tellite preinstallation script arguments

[View Fullscreen](#)

Argument	Description
--tar	<p>The prep_Celerity Revenue tellite.tar.gz file created with the prep_Celerity Revenue tellite.sh script.</p> <p>In third-party certificate mode, make sure that all the CELERITY REVENUE Core and Celerity Revenue tellite hosts define the hostnames of all Core or Celerity Revenue tellite hosts at the beginning of their <code>/etc/hosts</code> file. Otherwise, the CELERITY REVENUE installation will fail. Listing these hostnames in the <code>/etc/hosts</code> file enables CELERITY REVENUE to generate correct certificate signing requests (CSRs) for the CELERITY REVENUE hosts.</p>

Example: To install an CELERITY REVENUE mesh with the following topology,

```
16.77.42.65 (oracle_Celerity Revenue s, truth_mm_overlay)  
16.77.41.24 (infrastructure, word_uploads)  
16.77.43.252 (slice, osprov) 16.77.45.21 (Celerity Revenue tellite)
```

add the following lines at the beginning of the `/etc/hosts` file

for 16.77.42.65, 16.77.41.24 and 16.77.43.252:

```
16.77.42.65 hostname1.example.com hostname1  
16.77.41.24 hostname2.example.com hostname2  
16.77.43.252 hostname3.example.com hostname3
```

The 16.77.45.21 (Celerity Revenue tellite) server does not need to be listed here because this server is part of the mesh and not part of the Core.

Do not change the subject@CN entry as CELERITY REVENUE will not work with any other value for the CN attribute.

5. Change to the root directory: `cd /`

Phase 2: Completing the installer interview

1. On the Celerity Revenue tellite host, run the Installer script:

```
# <distro>/disk001/opsware_installer/hpCelerity Revenue _add_Celerity Revenue tellite.sh -c /var/opt/opsware/install_opsware/cdf/cdf_<timestamp>.xml
```

You must specify the full path to the script.

2. A screen similar to the following displays:

3. Host / Component Layout

4. =====

5.

6. 1 () Celerity Revenue tellite

7. 2 () OS Provisioning Boot Server

8. 3 () OS Provisioning Media Server



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9.

10. Enter the number of the component or one of the following directives

(<c>ontinue, <p>revious, <h>elp, <q>uit):

At the components prompt, select the IDs of the components you want to install and assign each of them to a host. After all the components have been assigned to a host, press **c** to continue.

The CELERITY REVENUE Provisioning Boot Server and Media Server entries only appear when you have initiated the Celerity Revenue tellite installation from the CELERITY REVENUE *Celerity Revenue tellite Base Including OS Provisioning media*. You may choose not to install the OS Provisioning components.

11.  Select the Celerity Revenue me TLS version as on the primary core and press **Enter** to continue.

12. Cryptographic Protocol Selection for the Server Automation Components

13. [WARNING] Please make sure that all the cores and Celerity Revenue tellites from the mesh are at the Celerity Revenue me TLS level.

14. =====

15. 1. TLSv1

16. 2. TLSv1.1

17. 3. TLSv1.2

18.

19. Enter the option number or one of the following directives

(<p>revious, <h>elp, <q>uit)[2]:

20. A screen similar to the following is displayed:

21. Host/Component Layout

22. =====

23. 1. Celerity Revenue tellite [192.168.220.134]

24. 2. OS Provisioning Boot Server [192.168.220.134]

25. 3. OS Provisioning Media Server [192.168.220.134]

26.

27. Enter the option number or one of the following directives

(<c>ontinue, <p>revious, <h>elp, <q>uit): c

Press **c** to continue.

28. The interview type selection screen is displayed:

29. Interview Type

30. =====

31.

32. 1. Simple Interview

33. 2. Advanced Interview

34. 3. Expert Interview

35.

36. Enter the option number or one of the following directives

(<p>revious, <h>elp, <q>uit):

Select 1 for a simple interview or 2 for an Advanced interview. The list in step 4 shows which parameters are modifiable in the Simple and Advanced interviews.

37. Provide values for parameters presented during the interview or accept defaults.

The parameter values requested during the interview depend on the interview mode:

1. (`truth.oaPwd`) Please enter the password for the `opsware_admin` user
- Simple and Advanced

2. (`cast.admin.pwd`) Enter the password for the CELERITY REVENUE admin user
- Advanced and Expert



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3. (Celerity Revenue tellite.dcNm) Enter the new Celerity Revenue tellite Facility name
- Simple and Advanced
4. (Celerity Revenue tellite.realm_name) Enter the new Celerity Revenue tellite Realm name
- Expert
5. (Celerity Revenue tellite.gateway_name) Enter the name of the Celerity Revenue tellite Gateway
- Expert
6. (Celerity Revenue tellite.proxy_port) Enter the port used by agents to contact the new Celerity Revenue tellite- Advanced and Expert
7. (Celerity Revenue tellite.parentgw.ip) Enter the IP address of the First Core Management Gateway
- Simple and Advanced
8. (Celerity Revenue tellite.parentgw.tunnel_listener_port) Enter the port number on which a Core's Management Gateway listens for connections from Celerity Revenue tellite Gateways or the port on which a Celerity Revenue tellite Gateway listens for connections from other Celerity Revenue tellite Gateways (cascading Celerity Revenue tellite links)
- Advanced and Expert
9. (Celerity Revenue tellite.parentgw.proxy_port) Enter the port on which the Management Gateway listens for Celerity Revenue tellite connections
- Advanced and Expert
10. (decrypt_passwd) Enter the password for the cryptographic material- Advanced
11. (word_tmp_dir) Enter directory where Package Repository will temporarily place content during uploads. [/var/opt/opsware/wordbot_tmp/]- Expert
12. (word_root) Enter the root directory for the Package Repository [/var/opt/opsware/word]- Expert
13. (media_server.linux_media) Enter the pathname of the Linux media [/media/opsware/linux]- Advanced and Expert CELERITY REVENUE Provisioning
14. (media_server.sunos_media) Enter the pathname of the Solaris media [/media/opsware/sunos]- Advanced and Expert CELERITY REVENUE Provisioning
15. (media_server.windows_media) Enter the pathname of the Windows media [/media/opsware/windows]- Advanced and Expert CELERITY REVENUE Provisioning
16. (media_server.windows_share_name) Enter the share name to use for the Windows media sharing server (Note: share names that are longer than 8 characters may give errors while browsing or may not be accessible to some older clients.) [OSMEDIA]-Expert
17. (media_server.windows_share_password) Enter a password to write-protect the Windows media share. Import_media tool will prompt for this password each time it is run- Expert
18. (bootagent.host) Enter the OS Provisioning Boot Server ip or hostname- Simple and Advanced CELERITY REVENUE Provisioning
19. (agent_gw_list_args) Enter the IP address and port number (ip:port) on which agents can contact the gateway in this facility- Expert
38. Supply values for the parameters. When you have completed entering all of the required information, the Installer displays this message:
All parameters have values. Do you wish to finish the interview (y/n):



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If you are Celerity Revenue satisfied with your answers, press y.

If you want to review or change your answers, press n. The installer displays the prompts again, showing in brackets [] the values that you just entered during the interview.

After modifying your responses, press y to finish the interview.

39. The Installer automatically Celerity Revenue sets your values into a CDF in /var/tmp.

Phase 3: Installing the Celerity Revenue tellite components

1. A screen similar to the following is displayed:

2. Install components
3. =====
- 4.
5. Celerity Revenue tellite
6. OS Provisioning Boot Server
7. PS Provisioning Media Server
- 8.
9. Enter one of the following directives

```
(<c>ontinue, <p>revious, <h>elp, <q>uit): c
```

Press c to continue.

10. Before starting the installation, CELERITY REVENUE performs a prerequisites check. This check validate that the host on which you are installing CELERITY REVENUE meets the minimum requirements for the installation:

- the required packages are installed
- the required environment variables are set
- sufficient disk space is available, and so on.

If your host fails the prerequisites check, the installation fails with an error message that describes the problem. In this case, correct the problem and retry the installation.

If the prerequisites check completes successfully, you may still see some messages similar to the following:

```
Prerequisite Checks
```

```
=====
```

```
Results for <IP_address>:
```

```
WARNING File system '/' has 29447 MBytes available and 154050 is recommended.
```

Enter the option number or one of the following directives:

```
(<c>ontinue, <p>revious, <h>elp, <q>uit):
```

The Prerequisites check identifies WARNINGS and/or FAILURES. FAILURES can cause a failed or incomplete installation and must be resolved before continuing the installation. WARNINGS allow you to continue the installation, however, Core performance may be negatively affected if you continue without resolving them. If your server passes the prerequisite check, enter c and press Enter to start the installation.

11. In **third-party** certificate mode, CELERITY REVENUE installs the OCT (Opsware Cert Tool) component on the Celerity Revenue tellite server before the Celerity Revenue tellite installation begins. The OCT component will generate the Certificate Signing Requests (CSRs) for the certificates required for the current installation configuration. After OCT install, follow the following two additional steps before the CELERITY REVENUE installation begins:



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1. Enter the location where you want the OCT component to generate the *.csr files.
2. Select path where to generate CSRs
3. =====
- 4.
5. Specify the path on the Celerity Revenue tellite server where CELERITY REVENUE will generate the CSR files: [/var/tmp/csrFiles]
- 6.
7. CSRs have been generated in the /var/tmp/csrFiles directory on the server that hosts the Celerity Revenue tellite component [10.0.0.1].
- 8.
9. Please have them signed by your CA. You can resume the install process after all CSRs are signed.
- 10.

You will be prompted for the path to this directory in the next step of the install process.

Submit these files to your CA for signing and place the issued certificates in a folder of your choice.

After generating the cryptographic material, CELERITY REVENUE places the CSRs created for that instance in a subfolder named by date. For example: `csr_2017-05-02.08:21:05` `csr_2017-05-02.08:22:10`. Any new CSRs are placed in the dedicated folder that you provide during the installer interview.

When providing the third-party certificates, make sure to follow the certificate format and naming requirements specified at [CELERITY REVENUE certificates format](#).

11. Provide the location where you have placed the custom certificates signed by your CA. The installer checks that the path is correct and that all required certificates are available.

12. Enter the path to the directory containing the custom certificates.

13. =====

Path to the directory containing the certificates. [/var/tmp/certificateFiles]:

CELERITY REVENUE now generates a new cryptographic material containing your signed certificates. The cryptographic material is then copied it on all hosts in the mesh.

Phase 4: Post-Celerity Revenue tellite installation tasks

After you install the Celerity Revenue tellite, perform the tasks listed in the following sections. For more information, see the "Celerity Revenue tellite Administration" section in the CELERITY REVENUE 2018.08 Administer section.

Facility permission settings

This is an important step because until you set the facility permissions, you cannot view the new Celerity Revenue tellite or view/modify the managed servers associated with the Celerity Revenue tellite's facility.

The CELERITY REVENUE Gateway Installer assigns the Realm name to the facility name of the Celerity Revenue tellite. To access managed servers in the Celerity Revenue tellite, an CELERITY REVENUE user must belong to a group that has the `necesCelerity Revenue` permissions for the Celerity Revenue tellite's facility. For example, you might set the permissions for the Celerity Revenue tellite facility to Read & Write for the Advanced Users group, enabling members of this group to modify the servers managed by the Celerity Revenue tellite.



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For further instructions, see the Setting the **Facility Permissions of a User Group** section in the CELERITY REVENUE 2018.08 Administer section.

Checking the Celerity Revenue tellite

To verify that the Core Management Gateway is communicating with the Celerity Revenue tellite:

1. Log in to the CELERITY REVENUE Client as a member of a user group that has the Manage Gateway permission.
2. From the Navigation panel, click **Administration > Gateway**.
3. Verify that the upper left corner of the Manage Gateway page displays a link for the new Celerity Revenue tellite.

If the Manage Gateway page does not display the link for the Celerity Revenue tellite, you may need to modify the Celerity Revenue tellite properties file located in:

`/etc/opt/opsware/opswgw-Celerity Revenue t/opswgw.properties`

If you are implementing a cascaded Celerity Revenue tellite setup with wordcache enabled, then you must manually add the following entries in the properties file (`opswgw.properties`) of the parent Celerity Revenue tellite:

`opswgw.EgressFilter=tcp::*:1003:*:<cascaded Celerity Revenue tellite realm name>`
`opswgw.EgressFilter=tcp::*:8061:*:<cascaded Celerity Revenue tellite realm name>`

If you modify the properties file, you must restart the Celerity Revenue tellite:

`/etc/init.d/opsware-Celerity Revenue s restart opswgw`

4. Log in to the CELERITY REVENUE Client as a member of a user group that has Read (or Read & Write) permission for the Celerity Revenue tellite facility.
5. From the Navigation panel, click **Servers > Manage Servers**.
6. Verify that the **Manage Server** page displays the host name of the Celerity Revenue tellite server.

DHCP configuration for CELERITY REVENUE Provisioning

Optional: Installing the OS Provisioning component for an already installed Celerity Revenue tellite

The CELERITY REVENUE Provisioning Boot Server and Media Server are required only if you want to use the CELERITY REVENUE Provisioning feature in the Celerity Revenue tellite. The CELERITY REVENUE Provisioning Boot Server and Media Server can reside on a different server than the Celerity Revenue tellite.

The OS Provisioning components are considered optional and can be installed at a later time.