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# Introduction to Qualcomm CreatePoint

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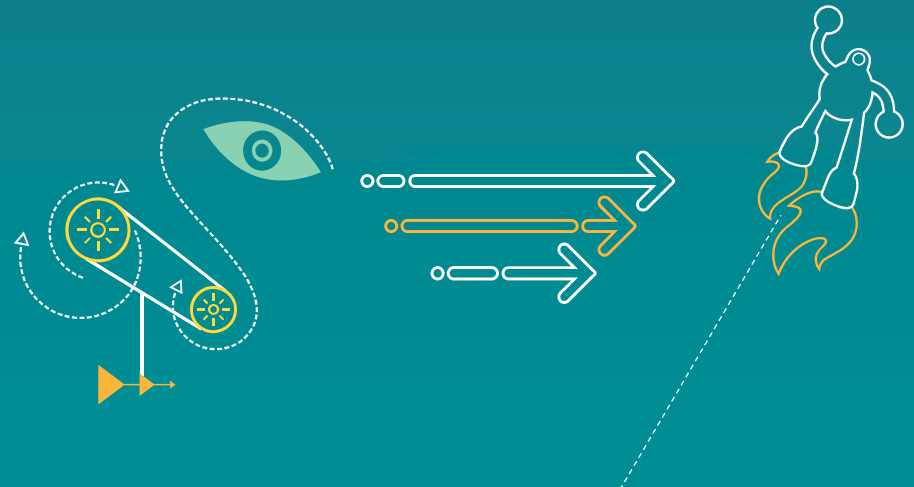


Qualcomm Technologies, Inc.

80-NC193-1 Rev. D

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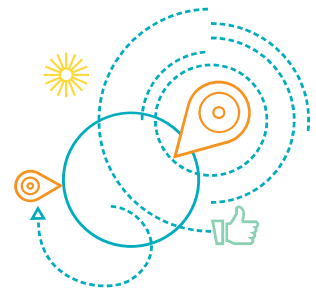
## Revision History

Revision	Date	Description
A	August 2012	Initial release
B	October 2012	Name modifications, new email sample, updated server information
C	February 2014	Updates to CreatePoint, new screen captures
D	April 2014	Removed “Docs & Downloads Experience” section, modified ChipCode UI screen captures, added “Tools on CreatePoint” section

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## Section 1

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# Documents and Code on CreatePoint

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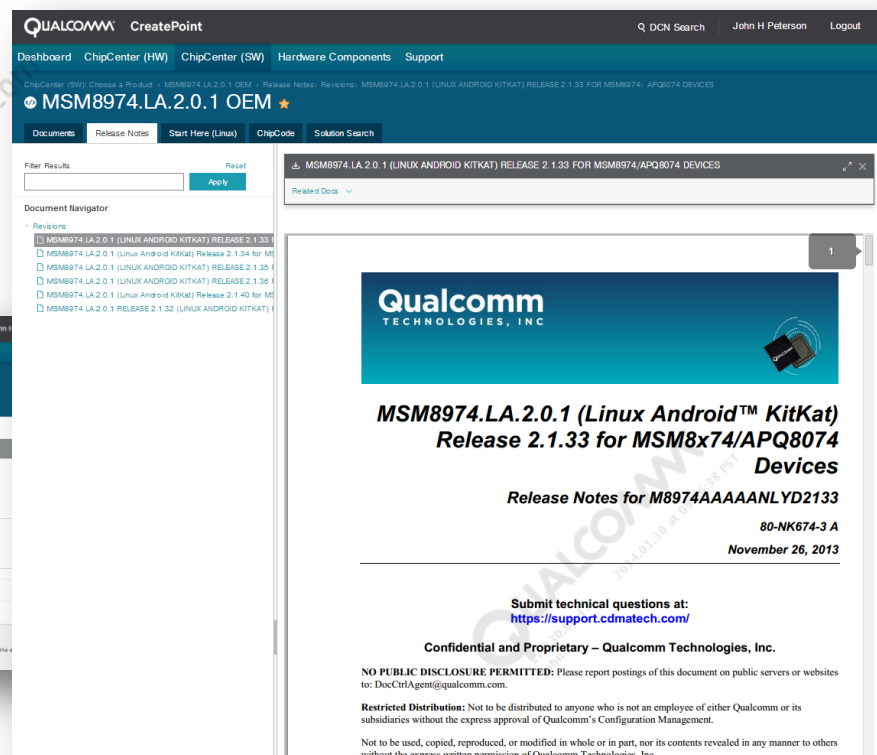
# Qualcomm CreatePoint: Content Management System via Web

1. Log into Qualcomm CreatePoint to browse your entitled Hardware or Software Solutions.
2. Identify your favorites to see a reduced set of Solutions.
3. Open a Solution to browse announcements, release notes, and documents.
4. Click a ChipCode tab to go to the Software code repository.

<https://createpoint.qti.qualcomm.com>



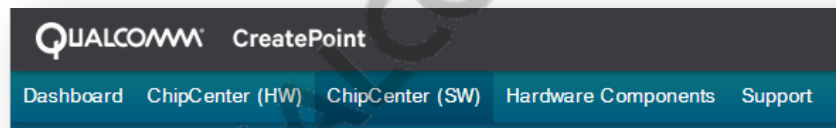
*My Favorite Solutions*



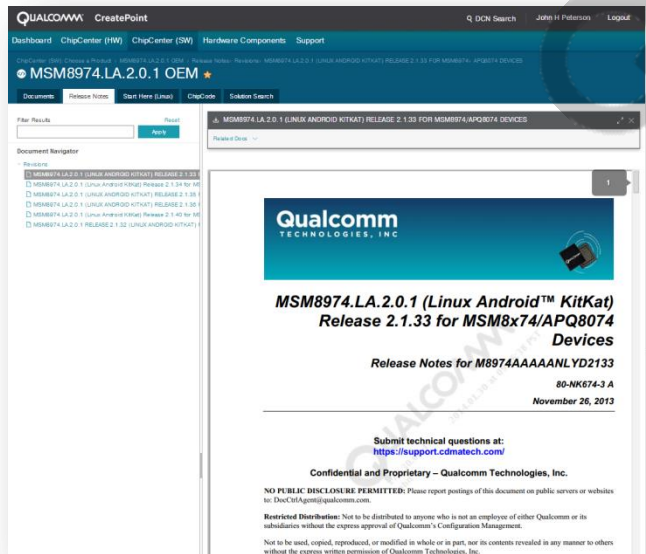
*A Solution view (MSM8974.LA.2.0.1 for OEMs, Release Notes selected)*

# Qualcomm CreatePoint Structure

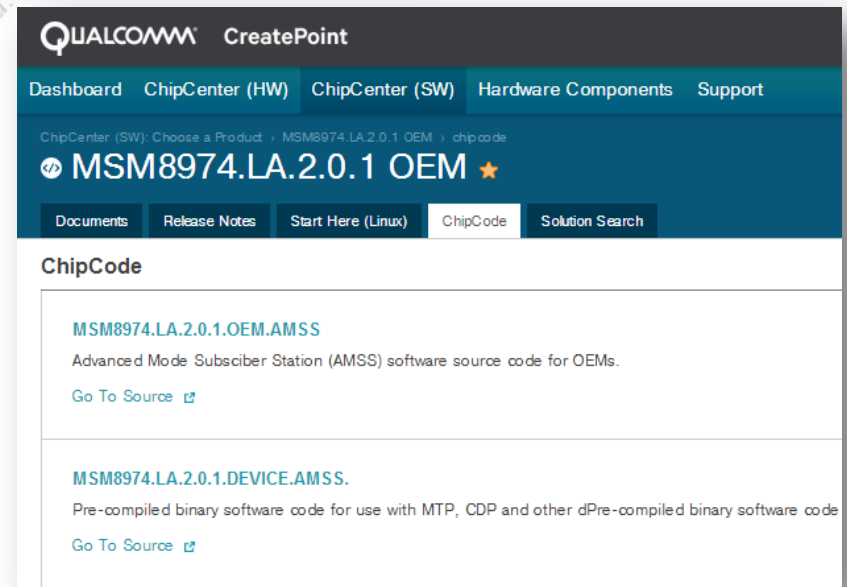
- Qualcomm CreatePoint is the main portal.
- CreatePoint applications are on the main toolbar.
- ChipCenter (HW) is for Hardware documentation by Chipset.
- ChipCenter (SW) is for Software documentation by Software product.
- ChipCenter (SW) is linked to ChipCode repositories for that Software product.



## CreatePoint Applications



**CreatePoint > ChipCenter (SW) > MSM8974.LA.2.0.1 OEM**  
**Documents**  
**Release Notes**  
**Start Here (Linux)**  
**ChipCode**



**CreatePoint > ChipCenter (SW) > MSM8974.LA.2.0.1 OEM > ChipCode**

# Qualcomm ChipCode™: Software Code Repositories via Web

- Review for chipset code using Git Repository over the Web
- In the web view of the Repository, you can browse through the content in its entirety without downloading any .zip files; you can also review specific code changes and diffs from the browser
- Cloned content will look exactly as shown; it is not necessary to extract or move files
- ZIP and TAR.GZ file formats are also available

The screenshot displays the Qualcomm ChipCode web interface. At the top, there's a navigation bar with 'Files', 'History', 'Commits', 'Members', 'About', and 'Settings'. Below this, a dropdown menu shows 'master' and a path '> apq8064-la-1-41\_adsp\_oem\_hap'. A table lists files: 'lpass\_proc' (10 months ago), 'gitattributes' (12 months ago), and 'about.html' (10 months ago). The 'about.html' file is selected, showing its content. The content includes a 'Build:' section with a table of build details and a 'Build Components:' section with a table of component details. A 'Legend:' section at the bottom shows a single entry: '\*' for 'Same as parent'. On the right side, there are download links for 'nearest regional server' and 'San Diego', and buttons for 'zip' and 'tar.gz'. Below these are input fields for 'from' (r14120.1) and 'to' (master), and buttons for 'Compare Versions' and 'Zip Changes'. At the bottom right, repository statistics are shown: 'Repo size 243.16 MB', 'Created Apr 01, 2014', 'Group: qualcomm', 'Sync State(s):' (listing 'aprdc / synced', 'chrdc / synced', and 'eurdc / synced'), 'Party ID: 1020', and '5 commits', '1 branch', and '4 tags'.

Product	Distribution	Context	ECCN
APQ8064.LA.1.41	Post-ES 1.4.120.1	OEM	5D002.C.1

Image	Build/Label	Distro Path	Format	Archive Path
LPASS_EL.1.6	A8064AAAAANAZL160014.1	lpass_proc	SRC	/prj/qct/asw/cmbuilds/good/builds610/PROD/A8064AAAAANAZL160014.1/HY11_1/lpass_proc

**Legend:**

*	Same as parent
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## Section 2

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# Cloning a ChipCode Repository

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### *First Step*

# First-Time Setup – Clone/Shallow Clone

For each new software product, clone or shallow clone your ChipCode repository to establish a copy of the repository on your local computer and begin receiving code releases automatically. If you do not want to clone the entire repository, execute a shallow clone and receive the latest 2 or 3 releases.

To clone or shallow clone the software to your local machine, use the Command Line Method. **Cloning is a one-time event.**

1. Install the Git client.
2. Copy the Git URL from your repository.  
**Note:** ChipCode provides the URL directly for San Diego; if you are not in San Diego, ChipCode provides a URL to the closest regional server.

Download from nearest regional server

<https://chipmaster2.qti.qualcomm.com/>



Download from San Diego

<https://chipcode.qti.qualcomm.com/>



3. Launch Git Bash or Terminal on your local machine.
4. Cloning command line:  
**time git clone <URL>**
5. Shallow cloning command line:  
**time git clone --depth 1 <URL>**

```
$ time git clone --depth 1 https://chipcode.qti.qualcomm.com/qualcomm/ipq8066-ln-1-0-1
Cloning into 'ipq8066-ln-1-0-1'
remote: Counting objects: 182, done.
remote: Compressing objects: 100% (163/163), done.
remote: Total 182 (delta 30), reused 80 (delta 0)
Receiving objects: 100% (182/182), 149.38 MiB | 1.94 MiB/s, done.
Resolving deltas: 100% (30/30), done.
Checking connectivity... done.
Checking out files: 100% (183/183), done.

real    1m8.340s
user    0m3.979s
sys     0m2.440s
```

- For additional details on shallow cloning, see: <https://chipcode.qti.qualcomm.com/helpki/shallow-cloning>.
- For additional details on cloning, including a Linux Git example, see: <https://chipcode.qti.qualcomm.com/helpki>.
- Git is available for Linux, Windows, and Macintosh.



## Section 3

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# Pulling from a ChipCode Repository

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### *Subsequent Steps*

## Subsequent Steps

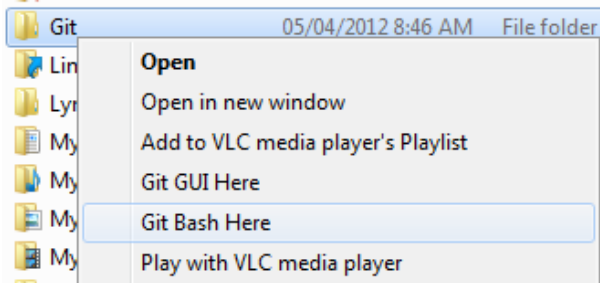
- For each new software release, a single command is used to pull in the minimal set of data necessary to bring your copy of the repository up-to-date.
- Instead of cloning everything again – which includes what you already have – to save time, Git will send only the files that have changed (deltas).

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## Subsequent Steps – Pull

To *only* pull the software changes to your local machine (Command Line Method):

1. Launch Git Bash (Windows) or Terminal (Linux).



2. Command: **time git pull --rebase**
3. If you do this regularly, it only takes approximately 2–4 minutes to pull in the changes.

A screenshot of a Windows Command Prompt window titled 'MINGW32: ~/Git/MyCode2'. The window shows the output of the 'time git pull --rebase' command. A large blue arrow points to the command line. The output shows the command was executed successfully, and the current branch 'master' is up to date. The timing information shows a real time of 0m55.621s, user time of 0m0.000s, and system time of 0m0.031s.

```
MINGW32:~/Git/MyCode2
Welcome to Git (version 1.7.11-preview20120710)

Run 'git help git' to display the help index.
Run 'git help <command>' to display help for specific commands.

john@JPETERS0 ~/Git/MyCode2 (master)
time git pull --rebase
Current branch master is up to date.

real    0m55.621s
user    0m0.000s
sys     0m0.031s

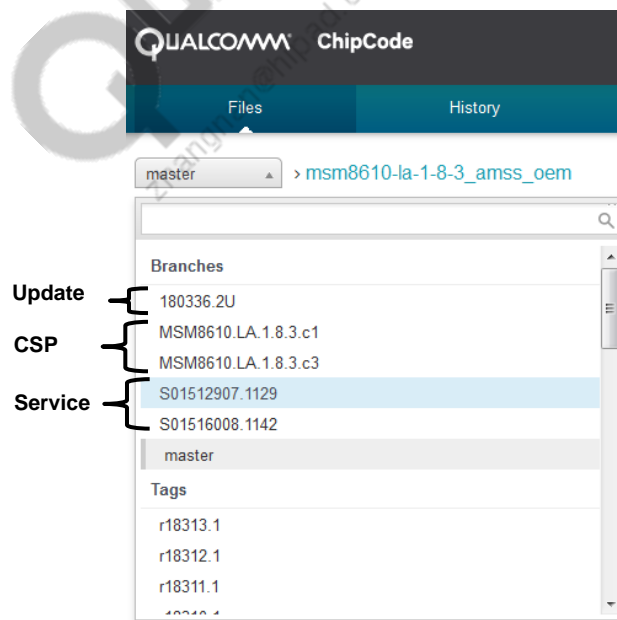
john@JPETERS0 ~/Git/MyCode2 (master)
$
```

- For additional details, see: <https://chipcode.qti.qualcomm.com/helpki/pulling-code-from-a-repository>.

# Code Distribution Types

Distribution types are organized by branches:

- **Standard:** Mainline software development (master branch)
- **Pre-release:** Additional standard releases in mainline (master branch).
- **Image:** Additional standard release of single image changes only (master branch).
- **CSP:** Custom release branch (dedicated branch, not on master).
- **Update:** Patches; packaging error fixes for previous distributions (branch with “U” suffix).
- **Service:** Proposed fixes and debug code on its own branch (“S” and Case Number and service task number as branch name)





## Section 4

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# Tools on CreatePoint

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## Tools on CreatePoint (1 of 3)

As of May 2014, Software Tools began migration from Docs & Downloads to CreatePoint.

1. Log in to <https://createpoint.qti.qualcomm.com>.
2. Choose the **Tools** tab.
3. Use **Facets** to narrow the list, or type the **name of the tool** to Filter Results.
4. Click the **Tool Name** to view the details.

The screenshot displays the Qualcomm CreatePoint interface. The top navigation bar includes the Qualcomm logo, 'CreatePoint', a search bar, and user information. The 'Tools' tab is highlighted. Below the navigation bar, the page title is 'Tools: Choose a Tools Suite'. A sidebar on the left shows 'Filter Results' with a search box and 'System OS' filters for Windows (5) and Linux (1). The main content area, titled 'All Tools', contains a table of tools.

Name ▼	Version ▼	Release Date ▲	System OS	Long Name ▼
<a href="#">QDART.WIN.4.8 Installer</a>	00020.14	04-21-2014	Windows	Qualcomm Development Acceleration Resource Toolkit
<a href="#">QXDM.LNX.1.0 Installer IntegrationAndTest</a>	00011.18	04-18-2014	Linux	Qualcomm eXtensible Diagnostic Monitor
<a href="#">QPST.WIN.2.7 Installer</a>	00418.3	04-17-2014	Windows	Qualcomm Product Support Tool
<a href="#">QXDM.WIN.3.14 Installer</a>	00724	04-14-2014	Windows	Qualcomm eXtensible Diagnostic Monitor
<a href="#">QMONET.MP.1.0 Installer</a>	00002.2	04-14-2014		Qualcomm Mobile Operator Name Encoding Tool
<a href="#">QANVV.WIN.3.5 Installer</a>	00004.2	04-14-2014	Windows	Qualcomm AT&T NV Verification
<a href="#">ART2.WIN.3.1 Installer</a>	03287.1	04-10-2014	Windows	Atheros Radio Test 2

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## Tools on CreatePoint (2 of 3)

- By default, the latest version of the tool is available to download.

QPST.WIN.2.7 Installer-00418.3.zip

A screenshot of the Qualcomm CreatePoint website. The page title is "QPST.WIN.2.7 Installer". It shows the "Download 00418.3" button. Below the title, there is a "Long Name" section with the text "Qualcomm Product Support Tool". A "Description" section states: "The Qualcomm Product Support Tool (QPST) contains QPST Configuration, Service Programming, Software Download, and EFS Explorer." The "Build Number" is "QPST.WIN.2.7-00418-GENERAL-3". The "System OS" is "Windows". The "Release Date" is "04-17-2014". There are tabs for "Documentation" and "What's New?". Below these, there is a "Dependencies" section and a "Documents" section. The "Documents" section has a "Download Selected Items" button and a table of documents.

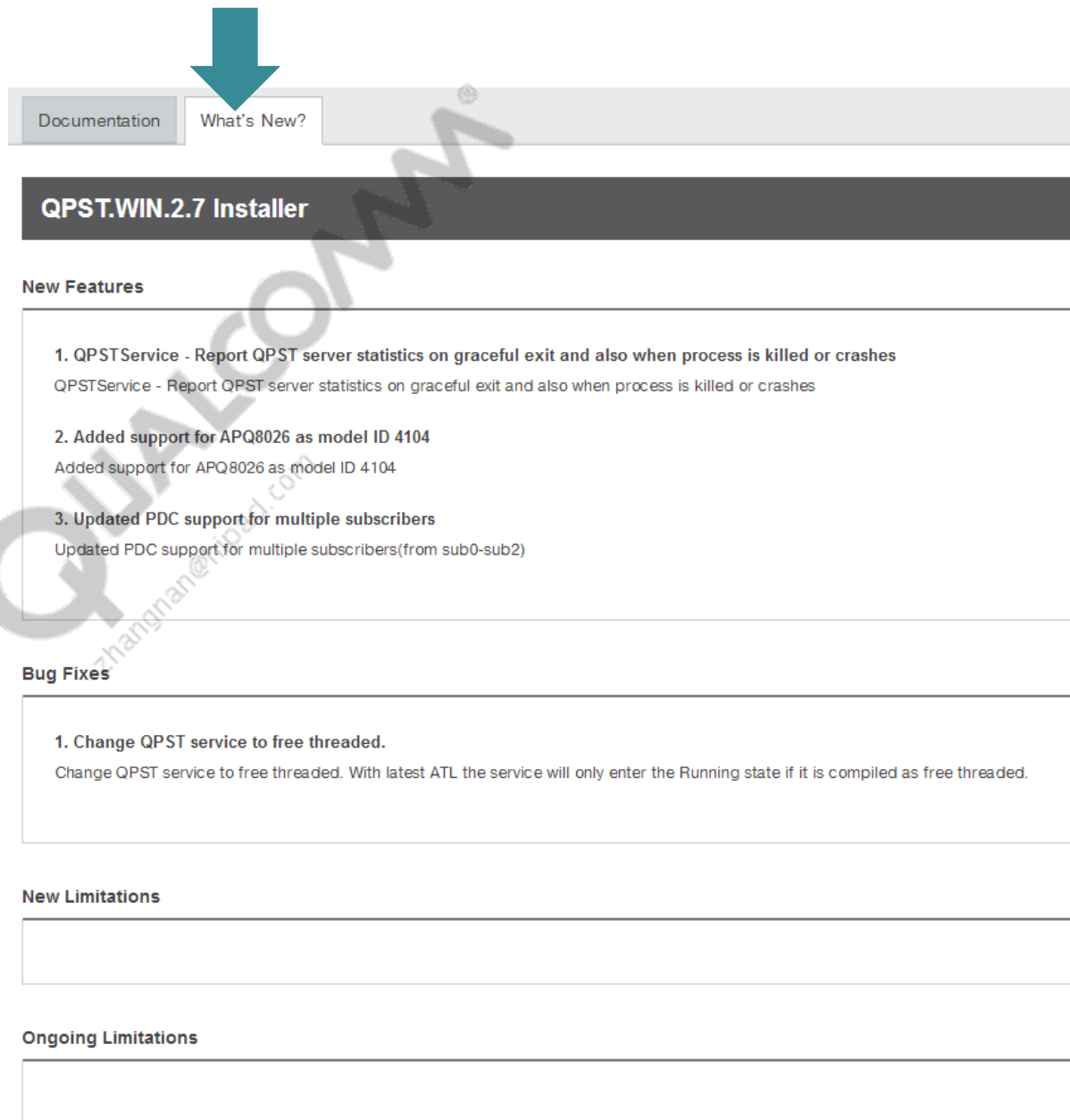
Title	DCN Number	File Type	File Size	Date
QUALCOMM PRODUCT SUPPORT TOOL (QPST) 2.7 USER GUIDE	80-V1400-3	PDF	2 MB	04-02-2014

- You may also download a previous version of the tool.
- The **Documentation** tab includes Dependencies, Documents, and available Videos.

## Tools on CreatePoint (3 of 3)

The **What's New?** tab includes:

- New Features
- Bug Fixes
- New Limitations, if applicable
- Ongoing Limitations, if applicable
- Email notifications are sent whenever a new release of a tool is posted



Documentation What's New?

### QPST.WIN.2.7 Installer

#### New Features

1. QPSTService - Report QPST server statistics on graceful exit and also when process is killed or crashes  
QPSTService - Report QPST server statistics on graceful exit and also when process is killed or crashes
2. Added support for APQ8026 as model ID 4104  
Added support for APQ8026 as model ID 4104
3. Updated PDC support for multiple subscribers  
Updated PDC support for multiple subscribers(from sub0-sub2)

#### Bug Fixes

1. Change QPST service to free threaded.  
Change QPST service to free threaded. With latest ATL the service will only enter the Running state if it is compiled as free threaded.

#### New Limitations

#### Ongoing Limitations

# References

Ref.	Document	
Qualcomm Technologies, Inc.		
Q1	Application Note: Software Glossary for Customers	CL93-V3077-1
Q2	Qualcomm CreatePoint User Guide	80-NC193-2

# Questions?

You may also submit questions to:

<https://support.cdmatech.com>

