

## CTFE FW v11.2.0.1 Release Notes



## Cable and Terrestrial Frontend Firmware

CTFE FW v11.2.0.1

*Customer Release Notes***Relevant BRCM ICs**

This release firmware runs on the frontend LEAP processor of the following Broadcom chips:

Cable Frontend Chips	Terrestrial Frontend Chips	Settop Box SoCs	Cable Modem SoCs
BCM3158x family	BCM3465	BCM7255x	BCM3385
BCM3412 LNA	BCM3466		BCM3390
BCM3462 LNA			

**Frozen FW Releases**

The following frontend LEAP releases are frozen at the F/W versions per the table below. Future URSR releases may contain critical F/W patches for these chip families, as required:

Chip Family	Version
BCM3128, BCM3184	10.4.0.0
BCM3461	10.4.0.0
BCM7584, BCM7576	10.4.0.0
BCM7563	10.4.0.0
BCM3465	10.3.0.0
BCM3466	10.3.0.1

## Release History

FW Release	Unified Release	FW Release Date	FW Release to URSR	Comments																					
CTFE FW v11.2.0.1	18.2	06/01/2018	06/06/2018	Rafael RT642 Support Release																					
CTFE FW v11.2.0.0	18.2	04/13/2018	04/13/2018	11.2.0.0 F/W release only contains BCM7255.  For BCM3158, BCM3465/66, URSR 18.2 will re-use CTFE F/W versions 11.1.0.0 and/or version 11.1.0.1, which was previously released in Ref. S/W URSR 18.1, and any subsequent patch(es).																					
CTFE FW v11.1.0.0	URSR 18.1	01/05/2018	01/11/2018	CTFE F/W Release ver. 11.1.0.0 for URSR 18.1.																					
CTFE FW v10.4.0.0	17.4	10/02/2017	10/13/2017	CTFE F/W Release ver. 10.4.0.0 for URSR 17.4.  Note: The frontend F/W for the following chips will be frozen at the F/W versions per the table below. Future URSR releases may contain critical F/W patches for these chip families, as required: <table><tr><th>Chip Family</th><th>Rev.</th><th>Version</th></tr><tr><td>BCM3128</td><td>C0</td><td>10.4.0.0</td></tr><tr><td>BCM3461</td><td>B0</td><td>10.4.0.0</td></tr><tr><td>BCM7584</td><td>A0</td><td>10.4.0.0</td></tr><tr><td>BCM7563</td><td>A0</td><td>10.4.0.0</td></tr><tr><td>BCM3465</td><td>A0 only</td><td>10.3.0.0</td></tr><tr><td>BCM3466</td><td>A0 only</td><td>10.3.0.1</td></tr></table>	Chip Family	Rev.	Version	BCM3128	C0	10.4.0.0	BCM3461	B0	10.4.0.0	BCM7584	A0	10.4.0.0	BCM7563	A0	10.4.0.0	BCM3465	A0 only	10.3.0.0	BCM3466	A0 only	10.3.0.1
Chip Family	Rev.	Version																							
BCM3128	C0	10.4.0.0																							
BCM3461	B0	10.4.0.0																							
BCM7584	A0	10.4.0.0																							
BCM7563	A0	10.4.0.0																							
BCM3465	A0 only	10.3.0.0																							
BCM3466	A0 only	10.3.0.1																							
CTFE FW v10.3.0.0	17.3	06/28/2017	07/14/2017	CTFE F/W Release for URSR 17.3																					

**Broadcom Inc**

15101 Alton Parkway

Irvine, California, USA 92618

Phone: 949-926-5000

[www.broadcom.com](http://www.broadcom.com)

## BBS Support

(Note: this table specifies BBS plugins and JS tools for the most recent release. Please refer to prior release notes of a particular release for BBS details for that release.)

Platform	Plugin Version	BBS Version	HTML/JS FE Tools	Notes
9312x/4x	<a href="#">3.1.60125.18</a>	BBS3	N/A	
93461	<a href="#">3.1.60125.7</a>	BBS3	N/A	
93472	<a href="#">3.1.60125.7</a>	BBS3	<a href="#">v1.2.0</a>	
97563	4.0.0.2	BBS4	<a href="#">v1.1.0</a>	
97584	4.0.0.2	BBS4	<a href="#">v1.5.0</a>	
97145	<a href="#">3.1.60125.16</a>	BBS3	<a href="#">v1.2.0</a>	
97364	4.0.0.15	BBS4	<a href="#">v1.0.0</a>	
93390	4.0.0.17	BBS4	<a href="#">v1.2.0</a>	
93158	4.0.0.7	BBS4	<a href="#">v1.3.0</a>	
975525	4.0.0.1	BBS4	<a href="#">v1.0.0</a>	
93465	4.0.0.0	BBS4	<a href="#">v1.2.0</a>	
93466	4.0.0.0	BBS4	<a href="#">v1.2.0</a>	
975635	4.0.0.3	BBS4	<a href="#">v1.0.0</a>	
97255	4.0.0.4	BBS4	<a href="#">v1.0.0</a>	

## Release Notes

### CTFE FW v11.2.0.1

FW Release Date: [06/01/2018](#)  
 Release to Unified (URSR): [06/06/2018](#)  
 Unified Release Target: [18.2](#)  
 Release Status: [Released](#)  
 Release Info: [Rafael RT642 Support \(BCM7255\) Release](#)

#### Change List

Item #	Chip	Change Description	Category
1	Other	Changes for RT642 Tuner and IF AGC stability	FW
2	Other	set the right GPIO for GPIO voltage control based on the board number	FW
3	Other	7255 bring-up changes. Addition for support of RT642 v1.2J8 code changes	FW

#### Known Issues

None.

#### Nexus Release Notes

<enter Nexus FE Rel Notes>

#### Nexus Frontend API Changes

<enter Nexus FE API changes>

End CTFE FW v11.2.0.1

### CTFE FW v11.2.0.0

FW Release Date: [04/13/2018](#)  
 Release to Unified (URSR): [04/13/2018](#)  
 Unified Release Target: [18.2](#)  
 Release Status: [Released](#)  
 Release Info: [11.2.0.0 F/W release only contains BCM7255.](#)

For BCM3158, BCM3465/66, URSR 18.2 will re-use CTFE F/W versions 11.1.0.0 and/or version 11.1.0.1, which was previously released in Ref. S/W URSR 18.1, and any subsequent patch(es).

#### Change List

Item #	Chip	Change Description	Category
1		BCM7255 Only: Engineering support of BCM7255 with Rafael External Tuner. (Rafael tuner driver will be moved to Magnum in subsequent release.)  (No changes from 11.1.0.0 for all other frontend chips)	FW

#### Known Issues

None.

**Nexus Release Notes**

&lt;enter Nexus FE Rel Notes&gt;

**Nexus Frontend API Changes**

&lt;enter Nexus FE API changes&gt;

*End CTFE FW v11.2.0.0***CTFE FW v11.1.0.0**FW Release Date: [01/05/2018](#)Release to Unified (URSR): [01/11/2018](#)01/05/2018Unified Release Target: [URSR 18.1](#)Release Status: [Released](#)Release Info: [CTFE F/W Release ver. 11.1.0.0 for URSR 18.1.](#)**Change List**

Item #	Chip	Change Description	Category
1	3158x, 3390-Bx, 3390-Cx, 3390-Zx	OI L_TO_U during acquisition caused by stop/start of OI	FW
2		Future CTFE F/W releases of BCM3128, BCM7584, BCM7563, and BCM3461 will be made for bug-fixes only.	FW
3	3158x	Corrects the reported ROM version ID of the "Get F/W Version" HAB command (affects BCM358 B0 only).	FW
4	3158x	Add support for BCM3158 variants: 31443, 3158A, 31582, 31581, and 31583	FW

**Known Issues**

None.

**Nexus Release Notes**

none

**Nexus Frontend API Changes**

none

*End CTFE FW v11.1.0.0***CTFE FW v10.4.0.0**FW Release Date: [10/02/2017](#)Release to Unified (URSR): [10/13/2017](#)10/13/2017Unified Release Target: [17.4](#)Release Status: [Released](#)Release Info: [CTFE F/W Release ver. 10.4.0.0 for URSR 17.4.](#)

Note: The frontend F/W for the following chips will be frozen at the F/W versions per the table below. Future URSR releases may contain critical F/W patches for these chip families, as required:

Chip Family	Rev.	Version
BCM3128	C0	10.4.0.0
BCM3461	B0	10.4.0.0
BCM7584	A0	10.4.0.0
BCM7563	A0	10.4.0.0
BCM3465	A0 only	10.3.0.0
BCM3466	A0 only	10.3.0.1

## Change List

Item #	Chip	Change Description	Category
1	3158x, 3390-Cx, 3390-Zx	From <a href="#">3390 LEAP-v10.3.7017.0</a>  Auto-power-down the Capture engine of the AIF after an 11 second period of inactivity of executing either Capture or Spec-A.	FW
2	3465-66	BCM3465/66 Terrestrial ODS receiver acquisition time performance improvements.	FW
3	3465-66	Add Nexus/Magnum Support for 3466 B0	Nexus, PI

## Known Issues

None.

## Nexus Release Notes

Added support for 3465 B0 and 3466 B0. Building for A0 now requires the Nexus compile-time flag `NEXUS_FRONTEND_3466_VER=A0`.

## Nexus Frontend API Changes

None.

*End CTFE FW v10.4.0.0*

## CTFE FW v10.3.0.0

FW Release Date: [06/28/2017](#)  
 Release to Unified (URSR): [07/14/2017](#)  
 Unified Release Target: [17.3](#)  
 Release Status: [Released](#)  
 Release Info: [CTFE F/W Release for URSR 17.3](#)

## Change List

Item #	Chip	Change Description	Category
1	3158x	From: <a href="#">3390 LEAP-v10.2.7016.0</a>  Implements the WFE "Histogram" Proactive Network Management (PNM) API via the HAB	FW
2	3465-66, 7563	DVB-T2 MPLP stream lock performance fixes/improvements.	FW
3	3158x	Fixes daisy and loop through glitches.	FW
4	3158x	Invert Spectrum / Auto-invert ADS status parameter fixes	FW
5	3465-66	Nordig T2 N-1/N+1 7MHz performance improvement	FW

## Known Issues

None.

## Nexus Release Notes

Add Nexus support for 3466 frontend handles to tune QAM.

Add 3466 OFDM Diversity Support

## Nexus Frontend API Changes

Added Diversity Antenna Support to NEXUS\_FrontendDevice\_SetSettings()/NEXUS\_FrontendDevice\_GetSettings() API. Diversity mode can be enabled/disabled by setting the numDiversityChannels variable in the NEXUS\_FrontendDeviceSettings structure.

Changed the defaults from NEXUS\_FrontendDevice\_GetDefaultOpenSettings to enable loadAP and each frontend type by default. This allows platform code to be streamlined, and should only affect cases where loadAP needs to be false.

---

End CTFE FW v10.3.0.0