

S2641 SAT-STA-20190531-00043 IB2019002274  
DIRECTV Enterprises, LLC  
DIRECTV T10



File # SAT-STA-2019 0531-00043

Call Sign S2641 Grant Date 06/06/19

(or other identifier)

Term Dates period of Approved by OMB  
From 06/17/19 To: 30 days 3060-0678

Approved: Stephen J. Duall

Chief, Satellite Policy Branch

Date & Time Filed: May 31 2019 5:18:41:770PM  
File Number: SAT-STA-20190531-00043  
Callsign:

FEDERAL COMMUNICATIONS COMMISSION  
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY  
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APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:  
60-Day STA Request to Relocate T10 (Call Sign S2641)

I. Applicant

Name:	DIRECTV Enterprises, LLC	Phone Number:	310-964-4996
DBA Name:		Fax Number:	
Street:	1120 20th Street, NW Suite 1000	E-Mail:	spdulac@att.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20036
Attention:	Steve Dulac		

**ATTACHMENT TO GRANT**  
**DIRECTV Enterprises, LLC**  
**IBFS File No. SAT-STA-20190531-00043**

<b>IBFS File No(s):</b>	SAT-STA-20190531-00043	<p><b>GRANTED – With Conditions</b></p>  <p><b>International Bureau Satellite Division</b></p>
<b>Licensee/Grantee:</b>	DIRECTV Enterprises, LLC (DIRECTV)	
<b>Call Sign:</b>	S2641	
<b>Satellite Name:</b>	DIRECTV T10	
<b>Orbital Location: (required station-keeping tolerance)</b>	102.75° W.L. (±0.05° East-West, ±0.05° North-South)	
<b>Administration:</b>	United States of America	
<b>Nature of Service:</b>	Fixed Satellite Service (FSS); Telemetry, tracking, & command (TT&C)	
<b>Scope of Grant:</b>	Special temporary authority for a period of 30 days to conduct TT&C operations necessary to drift DIRECTV T10 from the 102.85° W.L. orbital location to the 102.75° W.L. orbital location and maintain it at that location, and to provide FSS during the drift to the 102.75° W.L. orbital location.	
<b>Service Area(s):</b>	See IBFS File No. SAT-MOD-20070626-00086 (Exhibit 43, Attachment C)	
<b>Frequencies:</b>	18.3-18.8 GHz (space-to-Earth) 28.35-28.6 GHz (Earth-to-space) 29.25-29.5 GHz (Earth-to-space)  <u>Telemetry, Tracking, and Command</u> 18300.25 MHz and 18300.75 MHz (space-to-Earth) 29251.0 MHz and 29493.0 MHz (Earth-to-space)	

**Unless otherwise specified herein, operations under this grant must comport with the legal and technical specifications set forth by the applicant or petitioner and with Federal Communication Commission's rules not waived herein. This grant is also subject to the following conditions:**


1. Operations pursuant to this special authority must be on an unprotected and non-harmful interference basis, i.e. the DIRECTV T10 space station must not cause harmful interference to, and DIRECTV must not claim protection from interference caused to it by, any other lawfully operating station. In the event of any harmful interference, DIRECTV must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
2. DIRECTV must coordinate the operations of DIRECTV T10 with existing geostationary space stations to ensure that no unacceptable interference results from its operations during the drift to the 102.75° W.L. orbital location.
3. DIRECTV must operate DIRECTV T10 subject to the conditions contained in the prior authorization in IBFS File No. SAT-LOA-20040909-00169, grant stamp dated March 8, 2005, and subsequent modifications. In particular, DIRECTV must coordinate all of its Ka-band downlink operations with Federal fixed-satellite systems, both geostationary and non-geostationary, in accordance with footnote US334 to the Table of Frequency Allocations, 47 CFR § 2.106.

Licensee/grantee is afforded thirty (30) days from the date of release of this action to decline the grant as conditioned. Failure to respond within this period will constitute formal acceptance of the grant as conditioned.

This action is taken pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 CFR § 0.261, and is effective upon release.

Station licenses are subject to the conditions specified in Section 309(h) of the Communications Act of 1934, as Space station licenses are subject to conditions specified in Section 309(h) of the Communications Act of 1934,

**ATTACHMENT TO GRANT**  
DIRECTV Enterprises, LLC  
IBFS File No. SAT-STA-20190531-00043

amended, 47 U.S.C. § 309(h).		
<b>Action Date:</b>	June 6, 2019	
<b>Term Dates</b>	<b>From:</b> June 17, 2019	<b>To:</b> period of 30 days
<b>Approved:</b>	 Stephen J. Duall Chief, Satellite Policy Branch	

2. Contact

<b>Name:</b>	Jennifer D. Hindin	<b>Phone Number:</b>	202-719-4975
<b>Company:</b>	Wiley Rein LLP	<b>Fax Number:</b>	202-719-7049
<b>Street:</b>	1776 K Street, NW	<b>E-Mail:</b>	jhindin@wileyrein.com
<b>City:</b>	Washington	<b>State:</b>	
<b>Country:</b>	USA	<b>Zipcode:</b>	20006 -
<b>Attention:</b>		<b>Relationship:</b>	Legal Counsel

(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)

3. Reference File Number or Submission ID

4a. Is a fee submitted with this application?

- If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).
- Governmental Entity     Noncommercial educational licensee
- Other (please explain):

4b. Fee Classification    CRY – Space Station (Geostationary)

5. Type Request

- Change Station Location                       Extend Expiration Date                       Other

6. Temporary Orbit Location

102.75 WL

7. Requested Extended Expiration Date

8. Description (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

DIRECTV Enterprises, LLC requests a grant of special temporary authority for 60 days commencing June 17, 2019 to drift its T10 satellite (Call Sign S2641) from 102.85 W.L. to 102.75 W.L. and to operate the telemetry, tracking, and command and communications frequencies on the T10 satellite at 102.75 W.L. and during the drift from 102.85 W.L. to

9. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.  Yes  No

10. Name of Person Signing  
Steve Dulac

11. Title of Person Signing  
Director, Content Technology & Regulatory Policy

12. Please supply any need attachments.

Attachment 1: Narrative

Attachment 2:

Attachment 3:

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT  
(U.S. Code, Title 18, Section 1001). AND/OR REVOCATION OF ANY STATION AUTHORIZATION  
(U.S. Code, Title 47, Section 312(a)(1)). AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

**FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT**

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to [PRA@fcc.gov](mailto:PRA@fcc.gov). PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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**THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.**

## **8. Description**

DIRECTV Enterprises, LLC requests a grant of special temporary authority for 60 days commencing June 17, 2019 to drift its T10 satellite (Call Sign S2641) from 102.85 W.L. to 102.75 W.L. and to operate the telemetry, tracking, and command and communications frequencies on the T10 satellite at 102.75 W.L. and during the drift from 102.85 W.L. to 102.75 W.L.

**EXHIBIT 1**  
**REQUEST FOR SPECIAL TEMPORARY AUTHORITY**

DIRECTV Enterprises, LLC (“DIRECTV”) respectfully requests a grant of special temporary authority (“STA”)<sup>1</sup> for 60 days commencing June 17, 2019 to drift its T10 satellite (Call Sign S2641) from its current location at 102.85° W.L. to 102.75° W.L. and to operate the telemetry, tracking, and command (“TT&C”) and communications frequencies on the T10 satellite at 102.75° W.L. and during the drift from 102.85° W.L. to 102.75° W.L. DIRECTV plans to file a space station modification application to permanently change the authorized orbital location of T10 from 102.85° W.L. to 102.75° W.L.

T10 is permanently authorized to operate at 102.85° W.L.<sup>2</sup> DIRECTV’s T15 satellite (Call Sign S2930) is permanently authorized to operate at 102.75° W.L.<sup>3</sup> but is currently operating at 100.85° W.L. pursuant to a grant of special temporary authority.<sup>4</sup> DIRECTV is implementing certain changes to its existing satellite fleet in connection with the upcoming launch of DIRECTV’s T16 satellite (Call Sign S3039), which is currently scheduled for June 20, 2019. DIRECTV plans to relocate T10 from 102.85° W.L. to 102.75° W.L. as early as June 17, 2019, and the drift period is expected to last approximately 30 days. As noted above, DIRECTV plans to file a space station modification application to permanently change the authorized orbital location of T10 from 102.85° W.L. to 102.75° W.L. DIRECTV also plans to file a

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<sup>1</sup> DIRECTV has filed this STA request, an FCC Form 159, and a \$980.00 filing fee electronically via the International Bureau’s Filing System.

<sup>2</sup> See *Policy Branch Information; Actions Taken*, Public Notice, Report No. SAT-01080, File No. SAT-MOD-20150320-00012 (May 1, 2015).

<sup>3</sup> See *Policy Branch Information; Actions Taken*, Public Notice, Report No. SAT-01086, File No. SAT-LOA-20140825-00094 (May 22, 2015); *Policy Branch Information; Actions Taken*, Public Notice, Report No. SAT-01084, File No. SAT-MOD-20140612-00066 (May 15, 2015). T15’s 17/24 GHz BSS band payload was originally authorized under Call Sign S2712, which was consolidated with Call Sign S2930 in September 2017.

<sup>4</sup> See *Satellite Policy Branch Information; Actions Taken*, Public Notice, Report No. SAT-01358, File No. SAT-STA-20180830-00064 (Nov. 2, 2018); see also *180-Day STA Extension Request to Operate T15 (Call Sign S2930) at 101 WL*, File No. SAT-STA-20190416-00028.



separate space station modification application to permanently change the authorized orbital location of T15 from 102.75° W.L. to 102.85° W.L.

At 102.75° W.L. and during the drift from 102.85° W.L. to 102.75° W.L., DIRECTV will continue to operate the TT&C and communications frequencies on the T10 satellite in conformance with FCC rules and DIRECTV's coordination agreements concerning the nominal 103° W.L. orbital location. As such, grant of this STA will not result in increased risk of harmful interference. In the unlikely event that any interference should occur during the drift, DIRECTV will take all reasonable steps to eliminate such interference.

T10's frequencies are as follows:

#### **TT&C**

- 18300.25 MHz and 18300.75 MHz (space-to-Earth).
- 29251.0 MHz and 29493.0 MHz (Earth-to-space).

#### **Communications**

- 18.3-18.8 GHz (space-to-Earth).
- 28.35-28.6 GHz and 29.25-29.5 GHz (Earth-to-space).

DIRECTV has assessed and limited the probability of the space station becoming a source of debris as a result of collisions with large debris or other operational space stations. Apart from DIRECTV's T12 satellite (Call Sign S2797),<sup>5</sup> which DIRECTV will manage internally to ensure safe station-keeping, T10 will not be located at the same orbital location as another satellite or at an orbital location that has an overlapping station-keeping volume with another satellite. As noted above, although DIRECTV's T15 satellite is permanently authorized

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<sup>5</sup> T12 is permanently authorized to operate at 102.8° W.L. See *Policy Branch Information; Actions Taken*, Public Notice, Report No. SAT-01084, File Nos. SAT-MOD-20150320-00013 & SAT-MOD-20150327-00015 (May 15, 2015). T12's 17/24 GHz BSS band payload was originally authorized under Call Sign S2796, which was consolidated with Call Sign S2797 in September 2017.

to operate at 102.75° W.L., T15 is currently operating at 100.85° W.L. pursuant to a grant of special temporary authority, and DIRECTV plans to file a modification application to permanently relocate T15 to 102.85° W.L. Additionally, although DIRECTV's T16 satellite is currently authorized to operate at 102.70° W.L., DIRECTV has filed a modification application to change T16's authorized orbital location from 102.70° W.L. to 100.85° W.L.<sup>6</sup> DIRECTV is not aware of any other FCC-licensed system, or any other system applied for and under consideration by the FCC, having an overlapping station-keeping volume with T10 at 102.75° W.L. DIRECTV is also not aware of any other system with an overlapping station-keeping volume with T10 that is the subject of an ITU filing that is either in orbit or progressing towards launch.

Grant of this STA request will serve the public interest because it will facilitate DIRECTV's fleet management operations in connection with the launch of DIRECTV's T16 satellite, which will extend coverage, improve service performance, and provide additional capacity to DIRECTV customers. Accordingly, DIRECTV respectfully requests that the Commission grant this request.

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<sup>6</sup> See *Modification Application to Change T16 Orbital Location (S3039)*, File No. SAT-MOD-20190508-00036. DIRECTV was also recently granted special temporary authority to conduct in-orbit testing for T16 at 134.75° W.L. and to drift the satellite to 100.85° W.L. See *STA Request for T16 (Call Sign S3039) to Conduct IOT at 134.75° W.L.*, File No. SAT-STA-20190508-00037 (stamp grant May 29, 2019).



Jennifer D. Hindin  
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**VIA ELECTRONIC FILING**

June 6, 2019

Marlene H. Dortch  
Office of the Secretary  
Federal Communications Commission  
445 12th Street, SW  
Washington, DC 20554

Re: DIRECTV Enterprises, LLC 60-Day STA Request to Relocate T10 (Call Sign S2641),  
File No. SAT-STA-20190531-00043

Dear Ms. Dortch:

On May 31, 2019, DIRECTV Enterprises, LLC ("DIRECTV") filed the above-captioned application requesting a grant of special temporary authority ("STA") for 60 days commencing June 17, 2019 to drift its T10 satellite (Call Sign S2641) from its current location at 102.85° W.L. to 102.75° W.L. and to operate the telemetry, tracking, and command and communications frequencies on the T10 satellite at 102.75° W.L. and during the drift from 102.85° W.L. to 102.75° W.L. DIRECTV files this supplemental letter to respectfully request that the Commission grant DIRECTV's STA request for a 30-day period rather than a 60-day period as originally requested in the application.<sup>1</sup>

Please do not hesitate to contact the undersigned should you have any questions.

Respectfully Submitted,

*/s/ Jennifer D. Hindin*

Jennifer D. Hindin  
*Counsel for DIRECTV Enterprises, LLC*

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<sup>1</sup> DIRECTV plans to file STA extension requests to cover any drift period or operation at 102.75° W.L. that exceeds 30 days from the grant of this STA.