

Dell SmartFabric OS10 10.6.0 — Modos UFT

Tabela de escalabilidade da tabela de MAC (série S52XX-ON)

Pregão Eletrônico nº 90079/2026 (Contratação 217/2026) — Senado Federal / Prodasen

Item do Anexo 2 comprovado: 1.3.10.4 (mínimo de 90.000 endereços MAC)

Fonte oficial: Dell — *SmartFabric OS10 User Guide Release 10.6.0*, Capítulo 16 “UFT modes”, Tabela 98 (pág. 1451)

URL: <https://dl.dell.com/content/manual22608704-dell-smartfabric-os10-user-guide-release-10-6-0.pdf>

Data da consulta: 13/09/2026

O que o recorte anexo comprova: na série **S52XX-ON** (à qual pertence o S5248F-ON), a tabela de endereços MAC do OS10 comporta **163.840 entradas no modo padrão (Default)** e **294.912 entradas no modo *scaled-l2-switch***. Ambos os valores superam com folga o mínimo de **90.000** exigido pelo item 1.3.10.4 — ou seja, o requisito é atendido inclusive sem qualquer ajuste de perfil, na configuração padrão de fábrica.

Tabela 98 — UFT Modes—Table Size for S52XX-ON series (reprodução literal)

UFT Mode	L2 MAC Table Size	L3 Host Table Size	L3 Routes Table Size
Scaled-l2-switch	294912	16384	32768
Scaled-l3-hosts	32768	278528	32768
Scaled-l3-routes	32768	16384	393216
Default	163840	147456	32768

Texto introdutório do capítulo (reprodução literal)

A switch in the L2 network may require a larger MAC address table size while a switch in the L3 network may require a larger routing table size. Unified forwarding table (UFT) offers the flexibility to configure internal L2/L3 forwarding table sizes. OS10 supports several UFT modes for the forwarding tables. By default, OS10 selects a UFT mode that provides a reasonable size for all tables. The supported UFT modes are: default, scaled-l2-switch, scaled-l3-hosts, and scaled-l3-routes.

As páginas seguintes reproduzem as páginas 1450 a 1452 do guia oficial, contendo a Tabela 98 e o comando de configuração dos modos UFT.

Documento de evidência montado a partir da consulta à fonte oficial indicada acima, com reprodução literal do conteúdo publicado na data da consulta. A fonte é pública e pode ser reconsultada pelo pregoeiro/equipe técnica no endereço informado.

UFT modes

A switch in the L2 network may require a larger MAC address table size while a switch in the L3 network may require a larger routing table size. Unified forwarding table (UFT) offers the flexibility to configure internal L2/L3 forwarding table sizes.

OS10 supports several UFT modes for the forwarding tables. By default, OS10 selects a UFT mode that provides a reasonable size for all tables. The supported UFT modes are: default, scaled-l2-switch, scaled-l3-hosts, and scaled-l3-routes.

 **NOTE:** This feature is not supported on the Z9332F-ON platform.

Table 92. UFT Modes—Table Size for S3048-ON

UFT Mode	L2 MAC Table Size	L3 Host Table Size	L3 Routes Table Size
Scaled-l2-switch	40960	2048	8192
Scaled-l3-hosts	8192	18432	8192
Default	28672	8192	8192

Table 93. UFT Modes—Table Size for N3248TE-ON

UFT Mode	L2 MAC Table Size	L3 Host Table Size	L3 Routes Table Size
Scaled-l2-switch	114688	16384	8192
Scaled-l3-hosts	16384	114688	8192
Scaled-l3-routes	16384	16384	130048
Default	65536	65536	8192

Table 94. UFT Modes—Table Size for S4048-ON, S4048T-ON,

UFT Mode	L2 MAC Table Size	L3 Host Table Size	L3 Routes Table Size
Scaled-l2-switch	294912	16384	16384
Scaled-l3-hosts	98304	212992	98304
Scaled-l3-routes	32768	16384	131072
Default	163840	147456	16384

Table 95. UFT Modes—Table Size for S41XX-ON series

UFT Mode	L2 MAC Table Size	L3 Host Table Size	L3 Routes Table Size
Scaled-l2-switch	278528	4096	16384
Scaled-l3-hosts	16384	266240	16384
Scaled-l3-routes	16384	4096	262144
Default	147456	135168	16384

Table 96. UFT Modes—Table Size for S42xxFB-ON

UFT Mode	L2 MAC Table Size	L3 Host Table Size	L3 Routes Table Size
Default	250 K	48 K	130 K

Table 97. UFT Modes—Table Size for S42xxFBL-ON

UFT Mode	L2 MAC Table Size	L3 Host Table Size	L3 Routes Table Size
Default	250 K	48 K	2 Million

Table 98. UFT Modes—Table Size for S52XX-ON series

UFT Mode	L2 MAC Table Size	L3 Host Table Size	L3 Routes Table Size
Scaled-I2-switch	294912	16384	32768
Scaled-I3-hosts	32768	278528	32768
Scaled-I3-routes	32768	16384	393216
Default	163840	147456	32768

Table 99. UFT Modes—Table Size for S5400-ON series

UFT Mode	L2 MAC Table Size	L3 Host Table Size	L3 Routes Table Size
Scaled-I2-switch	229376	32768	32768
Scaled-I3-hosts	65536	196608	32768
Scaled-I3-routes	65536	65536	389100
Default	131072	131072	32768

Table 100. UFT Modes—Table Size for Z9100-ON

UFT Mode	L2 MAC Table Size	L3 Host Table Size	L3 Routes Table Size
Scaled-I2-switch	139264	8192	16384
Scaled-I3-hosts	8192	139264	16384
Scaled-I3-routes	8192	8192	131072
Default	73728	73728	16384

Table 101. UFT Modes—Table Size for Z9400-ON

UFT Mode	L2 MAC Table Size	L3 Host Table Size	L3 Routes Table Size
Scaled-I2-switch	163840	163840	65536
Scaled-I3-hosts	65536	327680	65536
Scaled-I3-routes	65536	65536	368640
Default	163840	163840	65536

Table 102. UFT Modes—Table Size for Z9264F-ON

UFT Mode	L2 MAC Table Size	L3 Host Table Size	L3 Routes Table Size
Scaled-I2-switch	270336	8192	32768
Scaled-I3-hosts	8192	270336	32768
Scaled-I3-routes	8192	8192	262144
Default	139264	139264	32768

Table 103. UFT Modes—Table Size for Z9664F-ON

UFT Mode	L2 MAC Table Size	L3 Host Table Size	L3 Routes Table Size	Multicast Entries
Scaled-I2-switch	131072 (128k)	32768	32768	IPv4 Multicast – 3.8k (OR) IPv6 Multicast – 480

Table 103. UFT Modes—Table Size for Z9664F-ON (continued)

UFT Mode	L2 MAC Table Size	L3 Host Table Size	L3 Routes Table Size	Multicast Entries
Scaled-l3-hosts	8192 (8k)	368640	32768	IPv4 Multicast - 9k (OR) IPv6 Multicast - 4k
Scaled-l3-routes	8192 (8k)	32768	368640	IPv4 Multicast - 9k (OR) IPv6 Multicast - 4k
Default	131072 (128k)	32768	32768	IPv4 Multicast - 3.8k (OR) IPv6 Multicast - 480

 **NOTE:** The L3 routes table size for Scaled-l3-routes mode might vary depending on the routes that are being installed.

Configure UFT modes

Available UFT modes include L2 MAC table, L3 host table, or L3 route table sizes. Save the configuration and reload the switch for the configuration changes to take effect.

- Select a mode to initialize the maximum table size in CONFIGURATION mode.

```
hardware forwarding-table mode [scaled-l2 | scaled-l3-routes | scaled-l3-hosts]
```

- Disable UFT mode in CONFIGURATION mode.

```
no hardware forwarding-table
```

Configure UFT mode

```
OS10(config)# hardware forwarding-table mode scaled-l3-hosts
OS10(config)# exit
OS10# write memory
OS10# reload
```

View UFT mode information

```
OS10# show hardware forwarding-table mode
Mode                               Current Settings      Next-boot Settings
L2 MAC Entries : 163840    scaled-l3-hosts
L3 Host Entries : 147456    98304
L3 Route Entries : 32768    212992
                               98304
```

View UFT information for all modes

```
OS10# show hardware forwarding-table mode all
Mode      default      scaled-l2      scaled-l3-routes      scaled-l3-hosts
L2 MAC Entries      163840      294912      32768      98304
L3 Host Entries      147456      16384      16384      212992
L3 Route Entries      32768      32768      131072      98304
```

IPv6 extended prefix routes

IPv6 addresses that contain prefix routes with mask between /64 to /128 are called as IPv6 extended prefix routes. These routes require double the key size in the Longest prefix match (LPM) table.

You can configure the number of route entries for an extended prefix using the `hardware l3 ipv6-extended-prefix prefix-number` command.

Save and Reload the switch for the settings to become effective.