



CVE-2019-14093

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CVE-2019-14093

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#) 

Certain versions of [Apq8009](#) from [Qualcomm](#) contain the following vulnerability:

Array out of bound access can occur in display module due to lack of bound check on input parcel received in Snapdragon Auto, Snapdragon Connectivity, Snapdragon Consumer IOT, Snapdragon Industrial IOT, Snapdragon IoT, Snapdragon Mobile, Snapdragon Voice & Music, Snapdragon Wearables in APQ8009, APQ8017,

APQ8053, APQ8096AU, APQ8098, MDM9206, MDM9207C, MDM9607, MDM9650, MSM8909W, MSM8917, MSM8920, MSM8937, MSM8940, MSM8953, MSM8996, MSM8996AU, QCM2150, QCS405, QCS605, QM215, SDA660, SDA845, SDM429, SDM429W, SDM439, SDM450, SDM632, SDM636, SDM660, SDX20

CVE-2019-14093 has been assigned by [Q](#) product-security@qualcomm.com to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: [Q](#) Qualcomm, Inc. - Snapdragon Auto, Snapdragon Connectivity, Snapdragon Consumer IOT, Snapdragon Industrial IOT, Snapdragon IoT, Snapdragon Mobile, Snapdragon Voice & Music, Snapdragon Wearables version APQ8009, APQ8017, APQ8053, APQ8096AU, APQ8098, MDM9206, MDM9207C, MDM9607, MDM9650, MSM8909W, MSM8917, MSM8920, MSM8937, MSM8940, MSM8953, MSM8996, MSM8996AU, QCM2150, QCS405, QCS605, QM215, SDA660, SDA845, SDM429, SDM429W, SDM439, SDM450, SDM632, SDM636, SDM660, SDX20

CVSS3 Score: **7.8 - HIGH**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
LOCAL	LOW	LOW	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	HIGH	HIGH	HIGH

CVSS2 Score: **4.6 - MEDIUM**

Access Vector	Access Complexity	Authentication
LOCAL	LOW	NONE

Confidentiality Impact	Integrity Impact	Availability Impact				
PARTIAL	PARTIAL	PARTIAL				
CVE References						
Description	Tags	Link				
Page not found	Broken Link www.qualcomm.com text/html Inactive Link Not Archived	CONFIRM www.qualcomm.com/company/product-security/bulletins/july-2020-bulletin				
July 2020 Security Bulletin	Patch Vendor Advisory www.qualcomm.com text/html	MISC www.qualcomm.com/company/product-security/bulletins/july-2020-security-bulletin				
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There are currently no QIDs associated with this CVE						
Known Affected Configurations (CPE V2.3)						
Type	Vendor	Product	Version	Update	Edition	Language
Hardware 	Qualcomm	Apq8009	-	All	All	All
Hardware 	Qualcomm	Apq8009	-	All	All	All
Operating System	Qualcomm	Apq8009 Firmware	-	All	All	All
Operating System	Qualcomm	Apq8009 Firmware	-	All	All	All
Hardware 	Qualcomm	Apq8017	-	All	All	All
Hardware 	Qualcomm	Apq8017	-	All	All	All
Operating System	Qualcomm	Apq8017 Firmware	-	All	All	All
Operating System	Qualcomm	Apq8017 Firmware	-	All	All	All
Hardware 	Qualcomm	Apq8053	-	All	All	All
Hardware 	Qualcomm	Apq8053	-	All	All	All
Operating System	Qualcomm	Apq8053 Firmware	-	All	All	All
Operating System	Qualcomm	Apq8053 Firmware	-	All	All	All
Hardware 	Qualcomm	Apq8096au	-	All	All	All

Hardware  	Qualcomm	Apq8096au	-	All	All	All
Operating System	Qualcomm	Apq8096au Firmware	-	All	All	All
Operating System	Qualcomm	Apq8096au Firmware	-	All	All	All
Hardware  	Qualcomm	Apq8098	-	All	All	All
Hardware  	Qualcomm	Apq8098	-	All	All	All
Operating System	Qualcomm	Apq8098 Firmware	-	All	All	All
Operating System	Qualcomm	Apq8098 Firmware	-	All	All	All
Hardware  	Qualcomm	Mdm9206	-	All	All	All
Hardware  	Qualcomm	Mdm9206	-	All	All	All
Operating System	Qualcomm	Mdm9206 Firmware	-	All	All	All
Operating System	Qualcomm	Mdm9206 Firmware	-	All	All	All
Hardware  	Qualcomm	Mdm9207c	-	All	All	All
Hardware  	Qualcomm	Mdm9207c	-	All	All	All
Operating System	Qualcomm	Mdm9207c Firmware	-	All	All	All
Operating System	Qualcomm	Mdm9207c Firmware	-	All	All	All
Hardware  	Qualcomm	Mdm9607	-	All	All	All
Hardware  	Qualcomm	Mdm9607	-	All	All	All
Operating System	Qualcomm	Mdm9607 Firmware	-	All	All	All
Operating System	Qualcomm	Mdm9607 Firmware	-	All	All	All
Hardware  	Qualcomm	Mdm9650	-	All	All	All
Hardware  	Qualcomm	Mdm9650	-	All	All	All
Operating System	Qualcomm	Mdm9650 Firmware	-	All	All	All
Operating System	Qualcomm	Mdm9650 Firmware	-	All	All	All
Hardware  	Qualcomm	Msm8909w	-	All	All	All
Hardware  	Qualcomm	Msm8909w	-	All	All	All
Operating System	Qualcomm	Msm8909w Firmware	-	All	All	All
Operating System	Qualcomm	Msm8909w Firmware	-	All	All	All

Operating System	Qualcomm	Microsoft Firmware				
Hardware  	Qualcomm	Msm8917	-	All	All	All
Hardware  	Qualcomm	Msm8917	-	All	All	All
Operating System	Qualcomm	Msm8917 Firmware	-	All	All	All
Operating System	Qualcomm	Msm8917 Firmware	-	All	All	All
Hardware  	Qualcomm	Msm8920	-	All	All	All
Hardware  	Qualcomm	Msm8920	-	All	All	All
Operating System	Qualcomm	Msm8920 Firmware	-	All	All	All
Operating System	Qualcomm	Msm8920 Firmware	-	All	All	All
Hardware  	Qualcomm	Msm8937	-	All	All	All
Hardware  	Qualcomm	Msm8937	-	All	All	All
Operating System	Qualcomm	Msm8937 Firmware	-	All	All	All
Operating System	Qualcomm	Msm8937 Firmware	-	All	All	All
Hardware  	Qualcomm	Msm8940	-	All	All	All
Hardware  	Qualcomm	Msm8940	-	All	All	All
Operating System	Qualcomm	Msm8940 Firmware	-	All	All	All
Operating System	Qualcomm	Msm8940 Firmware	-	All	All	All
Hardware  	Qualcomm	Msm8953	-	All	All	All
Hardware  	Qualcomm	Msm8953	-	All	All	All
Operating System	Qualcomm	Msm8953 Firmware	-	All	All	All
Operating System	Qualcomm	Msm8953 Firmware	-	All	All	All
Hardware  	Qualcomm	Msm8996	-	All	All	All
Hardware  	Qualcomm	Msm8996	-	All	All	All
Hardware  	Qualcomm	Msm8996au	-	All	All	All
Hardware  	Qualcomm	Msm8996au	-	All	All	All
Operating System	Qualcomm	Msm8996au Firmware	-	All	All	All
Operating System	Qualcomm	Msm8996au Firmware	-	All	All	All

Operating System	Qualcomm	Msm8996 Firmware	-	All	All	All
Operating System	Qualcomm	Msm8996 Firmware	-	All	All	All
Hardware 	Qualcomm	Qcm2150	-	All	All	All
Hardware 	Qualcomm	Qcm2150	-	All	All	All
Operating System	Qualcomm	Qcm2150 Firmware	-	All	All	All
Operating System	Qualcomm	Qcm2150 Firmware	-	All	All	All
Hardware 	Qualcomm	Qcs405	-	All	All	All
Hardware 	Qualcomm	Qcs405	-	All	All	All
Operating System	Qualcomm	Qcs405 Firmware	-	All	All	All
Operating System	Qualcomm	Qcs405 Firmware	-	All	All	All
Hardware 	Qualcomm	Qcs605	-	All	All	All
Hardware 	Qualcomm	Qcs605	-	All	All	All
Operating System	Qualcomm	Qcs605 Firmware	-	All	All	All
Operating System	Qualcomm	Qcs605 Firmware	-	All	All	All
Hardware 	Qualcomm	Qm215	-	All	All	All
Hardware 	Qualcomm	Qm215	-	All	All	All
Operating System	Qualcomm	Qm215 Firmware	-	All	All	All
Operating System	Qualcomm	Qm215 Firmware	-	All	All	All
Hardware 	Qualcomm	Sda660	-	All	All	All
Hardware 	Qualcomm	Sda660	-	All	All	All
Operating System	Qualcomm	Sda660 Firmware	-	All	All	All
Operating System	Qualcomm	Sda660 Firmware	-	All	All	All
Hardware 	Qualcomm	Sda845	-	All	All	All
Hardware 	Qualcomm	Sda845	-	All	All	All
Operating System	Qualcomm	Sda845 Firmware	-	All	All	All
Operating System	Qualcomm	Sda845 Firmware	-	All	All	All

Hardware  	Qualcomm	Sdm429	-	All	All	All
Hardware  	Qualcomm	Sdm429	-	All	All	All
Hardware  	Qualcomm	Sdm429w	-	All	All	All
Hardware  	Qualcomm	Sdm429w	-	All	All	All
Operating System	Qualcomm	Sdm429w Firmware	-	All	All	All
Operating System	Qualcomm	Sdm429w Firmware	-	All	All	All
Operating System	Qualcomm	Sdm429 Firmware	-	All	All	All
Operating System	Qualcomm	Sdm429 Firmware	-	All	All	All
Hardware  	Qualcomm	Sdm439	-	All	All	All
Hardware  	Qualcomm	Sdm439	-	All	All	All
Operating System	Qualcomm	Sdm439 Firmware	-	All	All	All
Operating System	Qualcomm	Sdm439 Firmware	-	All	All	All
Hardware  	Qualcomm	Sdm450	-	All	All	All
Hardware  	Qualcomm	Sdm450	-	All	All	All
Operating System	Qualcomm	Sdm450 Firmware	-	All	All	All
Operating System	Qualcomm	Sdm450 Firmware	-	All	All	All
Hardware  	Qualcomm	Sdm632	-	All	All	All
Hardware  	Qualcomm	Sdm632	-	All	All	All
Operating System	Qualcomm	Sdm632 Firmware	-	All	All	All
Operating System	Qualcomm	Sdm632 Firmware	-	All	All	All
Hardware  	Qualcomm	Sdm636	-	All	All	All
Hardware  	Qualcomm	Sdm636	-	All	All	All
Operating System	Qualcomm	Sdm636 Firmware	-	All	All	All
Operating System	Qualcomm	Sdm636 Firmware	-	All	All	All
Hardware  	Qualcomm	Sdm660	-	All	All	All
Hardware  	Qualcomm	Sdm660	-	All	All	All
Operating Svsstem	Qualcomm	Sdm660 Firmware	-	All	All	All

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Operating System	Qualcomm	Sdm660 Firmware	-	All	All	All
Hardware	Qualcomm	Sdx20	-	All	All	All
Hardware	Qualcomm	Sdx20	-	All	All	All
Operating System	Qualcomm	Sdx20 Firmware	-	All	All	All
Operating System	Qualcomm	Sdx20 Firmware	-	All	All	All
cpe:2.3:h:qualcomm:apq8009:-:*~::~:						
cpe:2.3:h:qualcomm:apq8009:-:*~::~:						
cpe:2.3:o:qualcomm:apq8009_firmware:-:*~::~:						
cpe:2.3:o:qualcomm:apq8009_firmware:-:*~::~:						
cpe:2.3:h:qualcomm:apq8017:-:*~::~:						
cpe:2.3:h:qualcomm:apq8017:-:*~::~:						
cpe:2.3:o:qualcomm:apq8017_firmware:-:*~::~:						
cpe:2.3:o:qualcomm:apq8017_firmware:-:*~::~:						
cpe:2.3:h:qualcomm:apq8053:-:*~::~:						
cpe:2.3:h:qualcomm:apq8053:-:*~::~:						
cpe:2.3:o:qualcomm:apq8053_firmware:-:*~::~:						
cpe:2.3:o:qualcomm:apq8053_firmware:-:*~::~:						
cpe:2.3:h:qualcomm:apq8096au:-:*~::~:						
cpe:2.3:h:qualcomm:apq8096au:-:*~::~:						
cpe:2.3:o:qualcomm:apq8096au_firmware:-:*~::~:						
cpe:2.3:o:qualcomm:apq8096au_firmware:-:*~::~:						
cpe:2.3:h:qualcomm:apq8098:-:*~::~:						
cpe:2.3:h:qualcomm:apq8098:-:*~::~:						
cpe:2.3:o:qualcomm:apq8098_firmware:-:*~::~:						
cpe:2.3:o:qualcomm:apq8098_firmware:-:*~::~:						
cpe:2.3:h:qualcomm:mdm9206:-:*~::~:						
cpe:2.3:h:qualcomm:mdm9206:-:*~::~:						
cpe:2.3:o:qualcomm:mdm9206_firmware:-:*~::~:						

cpe:2.3:o:qualcomm:mdm9206_firmware:-:*****:
cpe:2.3:o:qualcomm:mdm9206_firmware:-:*****:
cpe:2.3:h:qualcomm:mdm9207c:-:*****:
cpe:2.3:h:qualcomm:mdm9207c:-:*****:
cpe:2.3:o:qualcomm:mdm9207c_firmware:-:*****:
cpe:2.3:o:qualcomm:mdm9207c_firmware:-:*****:
cpe:2.3:h:qualcomm:mdm9607:-:*****:
cpe:2.3:h:qualcomm:mdm9607:-:*****:
cpe:2.3:o:qualcomm:mdm9607_firmware:-:*****:
cpe:2.3:o:qualcomm:mdm9607_firmware:-:*****:
cpe:2.3:h:qualcomm:mdm9650:-:*****:
cpe:2.3:h:qualcomm:mdm9650:-:*****:
cpe:2.3:o:qualcomm:mdm9650_firmware:-:*****:
cpe:2.3:o:qualcomm:mdm9650_firmware:-:*****:
cpe:2.3:h:qualcomm:msm8909w:-:*****:
cpe:2.3:h:qualcomm:msm8909w:-:*****:
cpe:2.3:o:qualcomm:msm8909w_firmware:-:*****:
cpe:2.3:o:qualcomm:msm8909w_firmware:-:*****:
cpe:2.3:h:qualcomm:msm8917:-:*****:
cpe:2.3:h:qualcomm:msm8917:-:*****:
cpe:2.3:o:qualcomm:msm8917_firmware:-:*****:
cpe:2.3:o:qualcomm:msm8917_firmware:-:*****:
cpe:2.3:h:qualcomm:msm8920:-:*****:
cpe:2.3:h:qualcomm:msm8920:-:*****:
cpe:2.3:o:qualcomm:msm8920_firmware:-:*****:
cpe:2.3:o:qualcomm:msm8920_firmware:-:*****:
cpe:2.3:h:qualcomm:msm8937:-:*****:
cpe:2.3:h:qualcomm:msm8937:-:*****:
cpe:2.3:o:qualcomm:msm8937_firmware:-:*****:


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cpe:2.3:o:qualcomm:msm8937_firmware:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8940:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:msm8940:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:msm8940_firmware:-:*:*:*:*:*
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cpe:2.3:o:qualcomm:msm8940_firmware:-:*:*:*:*:*.*
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cpe:2.3:h:qualcomm:msm8953:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8953:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:msm8953_firmware:-:*:*:*:*:*.*
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cpe:2.3:o:qualcomm:msm8953_firmware:-:*:*:*:*:*.*
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cpe:2.3:h:qualcomm:msm8996:-:*:*:*:*:*:

cpe:2.3:h:qualcomm:msm8996:-:*:*:*:*:*:

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cpe:2.3:h:qualcomm:msm8996au:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:msm8996au:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:msm8996au_firmware:-:*:*:*:*:*.*
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cpe:2.3:o:qualcomm:msm8996au_firmware:-:*:*:*:*:*.*
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cpe:2.3:o:qualcomm:msm8996_firmware:-.*:.*:.*:.*:.*:.*
```

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cpe:2.3:o:qualcomm:msm8996_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:qcm2150:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:qcm2150:-:*:*:*:*:*:

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cpe:2.3:o:qualcomm:qcm2150_firmware:-:*:*:*:*:*:*
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cpe:2.3:o:qualcomm:qcm2150_firmware:-:*:*:*:*:*:*
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cpe:2.3:h:qualcomm:qcs405:-:*:*:*:*:*:*:
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cpe:2.3:h:qualcomm:gcs405:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:qcs405 firmware:-:*:*:*:*:*:*
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cpe:2.3:o:qualcomm:qcs405_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:gcs605:-:*:*:*:*:*:*:
```

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cpe:2.3:h:qualcomm:gcs605:-:*:*:*:*:*:*:
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```
cpe:2.3:o:qualcomm:qcs605_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:qcs605_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:qm215:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:qm215:-:*:*:*:*:*:*:

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cpe:2.3:o:qualcomm:qm215_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:qm215_firmware:-:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sda660:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:sda660:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sda660_firmware:-:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sda660_firmware:-:*:*:*:*:*:
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cpe:2.3:h:qualcomm:sda845:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:sda845:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sda845_firmware:-:*:*:*:*:*:*:
```

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cpe:2.3:o:qualcomm:sda845_firmware:-:*:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sdm429:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:sdm429:-:*:*:*:*:*:*:

cpe:2.3:h:qualcomm:sdm429w:-:*:*:*:*:*:

cpe:2.3:h:qualcomm:sdm429w:-:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sdm429w_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sdm429w firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sdm429_firmware:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sdm429 firmware:-:*:*:*:*:*:*
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```
cpe:2.3:h:qualcomm:sdm439:-:*:*:*:*:*:*:
```

cpe:2.3:h:qualcomm:sdm439:-:*:*:*:*:*:*:

```
cpe:2.3:o:qualcomm:sdm439_firmware:-:*:*:*:*:*:
```

```
cpe:2.3:o:qualcomm:sdm439_firmware:-:*:*:*:*:*:
```

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cpe:2.3:h:qualcomm:sdm450:-:*:*:*:*:*:*:
```

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cpe:2.3:h:qualcomm:sdm450:-:*:*:*:*:*:*:
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```
cpe:2.3:o:qualcomm:sdm450_firmware:-:*:*:*:*:*:*:
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cpe:2.3:o:qualcomm:sdm450_firmware:-:*:*:*:*:*:*:
```

cpe:2.3:o:qualcomm:sdx20_firmware:-:*:*:*:*:*:*:

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