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Supported transfer protocols per vendor

Vendor	SFTP		SCP		FTP		TFTP		Reverse	Fallback
	plain	vrf	plain	vrf	plain	vrf	plain	vrf	FTP	cli show
Alcatel OmniSwitch	yes	n/a	yes	n/a	yes	n/a	yes	n/a		yes
Alcatel/TiMOS	n/a		yes	n/a	n/a		n/a			yes
Arista/EOS	yes	n/a	yes	n/a	yes	n/a	yes	n/a		yes
Aruba/CX	n/a		yes	n/a	yes	n/a	yes	n/a		yes
Aruba/MC	n/a		yes	n/a	yes	n/a	yes	n/a		yes
Aruba/MM	n/a		yes	n/a	yes	n/a	yes	n/a		yes
Avaya/ERS	yes	n/a	n/a		n/a		yes	n/a		yes
Avaya/VSP	n/a		n/a		n/a		n/a		yes	yes
Checkpoint/Mgmt	yes	n/a	n/a		n/a		yes	n/a		yes
Ciena/CI6	yes	n/a	yes	n/a	yes	n/a	yes	n/a		yes
Ciena/CI8	yes	n/a	yes	n/a	yes	n/a	yes	n/a		yes
Cisco/ACI	yes	n/a	yes	n/a	n/a		n/a			yes
Cisco/IOS	n/a		yes	n/a	yes	n/a	yes	n/a		yes
Cisco/Nexus	yes		yes		yes		yes			yes
Cisco/WLC	yes	n/a	n/a		yes	n/a	yes	n/a		no
Cisco/XE	n/a		yes		yes		yes	n/a		yes
Cisco/XR	yes		yes		yes		yes			yes
Corvil/CNE	n/a		yes	n/a	yes	n/a	yes	n/a		yes
Falcon/MROTEK	n/a		n/a		yes	n/a	yes	n/a		yes
F5/BigIP	yes	n/a	yes	n/a	yes	n/a	yes	n/a		yes
Fortinet/Fortigate	n/a		n/a		yes	n/a	yes	n/a		yes
HP/Comware5	yes		yes	n/a	yes		yes			yes
HP/Comware7	yes		yes		yes		yes			yes
Huawei/S	yes		yes*		yes		yes			yes
Huawei/CE	yes		yes*		yes		yes			yes
Juniper/Junos	yes		yes		yes		yes			yes
PaloAlto/Panos	n/a		yes	n/a	n/a		yes	n/a		yes
Perle IOLAN	n/a	n/a	yes	n/a	n/a	n/a	n/a	n/a		yes

* not supported on each model within vendor family

Bold text indicates the default protocol used for vendor in question.

The "Fallback cli show" column indicates that a 'cli show config' command will be used as a fallback in the case the configuration file transfer failed.

Using a non default transfer protocol

Click the *Hardware* item from the design menu and select the model in question, select the desired protocol for file transfers from the *File transfer* pulldown menu and click the *Apply* button to save these changes.

Model name:	<input type="text" value="MX480"/>	Vendor type:	<input type="text" value="Junos"/>
Description:	<input type="text" value="MX480"/>	Hardware type:	<input type="text" value="Router"/>
		File transfer:	<input type="text" value="-use vendor default-"/>
Os version:	<input type="text"/>	Boot image:	<input type="text"/>
Storage device:	<input type="text"/>	Loader image:	<input type="text"/>
Notes:	<div></div>		

Save

Configure a VRF to be used for file transfers, manual

To create a new VRF, click the *Mpls vrfs* item from the Build menu, click the new button and select the desired *Client_type* which you would like to create the VRF for and enter the *Vrf_id* you would like to use.

Create Node Vrf

Client_type:	<input type="text" value="CMDB"/>	Vrf_id:	<input type="text" value="management"/>
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CloseApplyOK

Click *OK* to create this VRF.

Now to configure a node to actually use this newly created VRF go back to the main Build form and find the node you would like to configure this VRF, doubleclick the node to enter the *Edit Node* form, click the *VRFs* button to enter the VRF part of this node, click the new button and select the VRF you created earlier:

Create Node Vrf

✕

Vrf_id:

2 - management

▼

Close

Apply

OK

make sure to set the value of `Vrf_management` to 1 and click the `Save` button.

Configure a VRF to be used for file transfers, using service-type

To update the VRF on multiple nodes is possible using the service-types and the CSV api or using XML. An example is given below.

CSV_API.ini addition:

```
[VrfMgmt]
brief = Enable VRF management for a VRF on a node
Hostname
Vrf_id
```

A service-type needs to be added with the following contents. (click the image for a larger view)

Seq	Exec	Class	Scope	Match	Value	Alias
1	LOCATE	NODE	GLOBAL	NODE_NAME	(Hostname)	<node>
2	LOCATE	VRF	<node>	VRF_ID	(Vrf_id)	<vrf>
3	ASSIGN	VRF	<vrf>	Vrf_management	1	

The following sheet can be used to automate the nodes and the attached VRF to enable the `Vrf_management` flag. Make sure to match the values of the `Client_type`, `service_class` etc. [More information on CSV api](#).

st_vrf_csv_api.ods

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