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.

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.

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:

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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