

Data Sheet

Ensemble Controller

# Ensemble Packet Director

Fast service activation and total network control

### **Benefits**

- Comprehensive network insights User interfaces with clear and transparent reporting of network status and services quality plus comprehensive alarm management
- Powerful GUI Graphical and table-based access to packet networks enables operational teams to act quickly and efficiently
- SLA assurance Tools for monitoring and gathering of performance information provide realtime and historic SLA reports
- Fast and efficient service activation An intuitive GUI simplifies the provisioning of services significantly; no configuration of intermediate nodes is required
- Supporting any topology Port- and VLAN-based Ethernet services in line, ring, LAN or tree configurations
- Service templates/drafts
   Standard services are described with their attributes, OAM requirements and pretesting methods for minimizing manual processes and resolution of service impairments

### **Overview**

In a cloud-centric world, communication service providers need to provide connectivity in a highly dynamic way. The growing number of service activations and service modifications is steadily increasing the workloads of operational teams. What's more, with complexity mounting, the risk of failure is also on the rise. Our Ensemble Packet Director simplifies service provisioning and operation with end-to-end control and powerful graphical user interfaces (GUIs). Our Ensemble Packet Director, part of our advanced Ensemble Controller network management and control solution suite, streamlines the end-to-end delivery and maintenance of packet services. With automated path computation and powerful GUIs, end-to-end services can be provisioned in minutes without the need to explicitly configure intermediate nodes. This includes the configuration of service attributes, OAM requirements and service activation testing. Service level agreements (SLAs) are continuously monitored by comprehensive data collection and reporting on relevant performance metrics. This high level of automation in combination with clear user interfaces is key to fast and efficient operations with minimum human error.

Room Seite Den Systemation				-											
L. N. ANDER	Name spart         Image States         (main states)         (main states	The Contract Printer	ten fanatus n. Montes Brook	1941 W 14	Steelos	210.00 B		-							
C. C. Constantia	term      term      term	A 100 100	A becauters O total		S Pantal	100.0									
w C heart		A DESCRIPTION OF	Gase V brane	1 10 1 100	The T	digitiza 🕴 Kar	-	-							
2 <b>2</b> m			NE TATUELACEMEL	-	MARCHINE, MARCHINES, M	e belatur tue tup.		_							
and a second at the second at		0 Am			20-3-32141, 2017-logilar meter	markaline .		_							
Annal Annal Annal			PROV. 1973-147-0998-34.		201-5-0 Photo, 2P Aurorat 201-5-0 Photo, 2P Aurorat 201-5-0 Photo, 2P Aurorat										
** An our carrie on			THE OF STATISTICS.	room, we	201-0-0 (Tells, 197-barrant) 201-0-0 (Tells, 197-barrant)										
		8	MARK TOTAL ACCORDING	month, MR	HEREITON, Alexandramound medication, 36 Austral Manual										
			ALL PROPERTY.	mont, vit	2010/02/101. Although a survey of the second										
			men. Prinkramina.		105-0-0 Poly. W-broad 105-0-0 Poly. W-broad 105-0-0 Poly. We broad in the										
	James and Andrews	0 44	<ul> <li>1910.000000.00.</li> <li>1910.000000.00.</li> <li>1910.000000.00.</li> </ul>	poon, we	2010/01/01/01/01/02/02/02/02/02/02/02/02/02/02/02/02/02/	a bios		_							
			ACTAL PRODUCTION DA.	PLOSE. VI	HEARING, Locardon	(how									
	IN T				HER-D-D' HER- 197 Aurorat	and a second									
					20-3 9-304, Orland Class 20-5 7-532, Novement of the 20-5 7-654, Novement of the	e bester tor tigt.									
					2010-51404, Meletateraperty 2010-8-914, 9P Arrow 2010-8-914, 9P Arrow	e deration for Typ. Division									
			men, several report.	ACTER, GREE	HUGHERS, WARAN										
		8	more language to the term		MARCHINE, MARRIED	ind provid									
				mana ma	2010/01/01/1 Secretize result 2010/3/21/11 99 Arread	Ind yours									
			Second to pro-	series.											
Inc. 1. Down 11		00.1			ta Soniko Põen Synchr	oriarios Senio			Arm ben C						
2010 C 1010 CP UP INFORM V LINE V 2010 C 102 T C 2017     ANNU 1010 C 10100 C 1010 C 10100 C 10					a seres rees (yes)		nete Denet		Chebgon.		ND M heats 🗲 Set M				- Attain 6
ADDRESS MATCH THE DR. THE DR.	MC 40 WHO faces			••••	ter Maruar		meetines and Train Mahal				Internet	a sea a spe same.		f teen.	10
E & Annual Street, Name Springer, Society of Street, Street	ALCAS (PR) SAME				n No	~	Desis Max	April 24	👌 PA Tempine Assignme	Conton	on Jockment Se Te	horse	best.	Terre.	
					ni Pep		Dears Hep				0015 Bart, T. Start, T. End P				
					Oyark	-		Chitark	DRIADSI. 🕈	e 📕 Ali, Sev	at. Advit. Seviel.	ROFT. NA	Optical Data S.,	ETHINHO Dea	nest Tackibble
					ent ent	Could Service	low.						- 0 X		
					Cause Tails Committees	Coveral Endpoint	lote .							2	
				> <b>-</b>	Corriebon	Service Identific	tion	^	Common Settings				^		
						Service Name	pol .		M70 Apr 900						
						Rende Sare									
						Custamer	Стурия	v	CFM (IEEE 002.1ag				^		
							Одих	v	CFM (IEEE 002.1ag				*		
						Custamer	Одик.	×	CFM (EEE 002.7ag	D0			^		
						Cotoner		~ ^	CFM (IEEE 002.1ag				Å		
						Cutumer Converts Service Configur	ition	~	CFM (IEEE 502. Tag O'M (Native Admin State Direction	∎ D# S Up			*		
						Cuturer Connents Service Configur Service Type	ation IEAN	~ ~	CFM (IEEE 002.1ag OfM Inside Admin State Direction CCM Interval	N DW			*		
						Costoners Converts Service Configur Service Type Lever Protocol	ifon Ent trent	× * *	CFM (HELE GOL Tag O'M Institut Admin State Direction CCM Internal CCM Senantion	Contraction of the second seco			*		
						Costoner Connents Service Configur Service Type Leyer Protocol Protection Type	ilion Ennt Uronsce	× × × ×	CFM (IEEE 800.3ag Off Insteed Admin 5Me Dection CCM Instead CCM Sensation MD FormsTige	Correction S Di Drover String			*		
						Costoners Converts Service Configur Service Type Lever Protocol	ifon Ent trent	× × × × ×	CFM (IEEE 802.3ag Off Insteet Admin 5Me Director CCM Instead CCM Security MD Formet Type MD Formet	S DW S Dy N Debet Strop Strop Strop Strop			*		
						Costoner Connents Service Configur Service Type Leyer Protocol Protection Type	ilion Ennt Uronsce	× × × ×	CFM (EEE 002.3ag Off Indian State Dector CCM Intend CCM Senation NO Format Type NO Name NO Intel	E Dat G Dat S S S Stopped Stopped S S S S S S S S S S S S S			*		
					10 Rever Senier Manger (D)	Cottoner Converth Service Configue Service Type Layer Protocol Protection Type Administrate	ilion Ennt Uronsce	×	CFM (IEEE 802.3ag Off Insteet Admin 5Me Director CCM Instead CCM Security MD Formet Type MD Formet	E Dat G Dat S S S Stopped Stopped S S S S S S S S S S S S S		Ceres Sanda	A A		
					Server Serve Keepe DD 5 00004 W00000 Heere Server	Cuttower Convents Service Coeffigu Service Toeffigu Service Toeffigu Lever hotool Protection Toer Administer	ilion Ennt Uronsce	× × × ×	CFM (EEE 002.3ag Off Indian State Dector CCM Intend CCM Senation NO Format Type NO Name NO Intel	E Dat G Dat S S S Stopped Stopped S S S S S S S S S S S S S		Cent Social	A Decor		
					<ul> <li>2020-05-04 101/203 0207 Modify of Vel</li> <li>2020-05-04 101/203 0207 Modify of Vel</li> <li>2020-05-04 101/203 0207 Overa of No</li> </ul>	Cottoner Connents Service Configur Service Tope Lever Instant Annumber Administre	ifon Eut ferrer ferrer a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	v v v v v	CFM (EEE 002.3ag Off Indian State Dector CCM Intend CCM Senation NO Format Type NO Name NO Intel	E Dat G Dat S S S Stopped Stopped S S S S S S S S S S S S S		One Sect	A Deces		
					<ul> <li>2020-05-04 101203 0227 Modely drive</li> <li>2020-05-04 101203 0227 Modely drive</li> </ul>	Cottoner Connents Service Configur Service Tope Lever Instant Protection Type Administre	ifon Eut ferrer ferrer a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x x x x x x	CFM (EEE 002.3ag Off Indian State Dector CCM Intend CCM Senation NO Format Type NO Name NO Intel	E Dat G Dat S S S Stopped Stopped S S S S S S S S S S S S S		Cent Social	A Dece		

# **ENSEMBLE PACKET DIRECTOR**

# High-level technical specifications

#### Service provisioning

- End-to-end service provisioning
- Rapid service activation with powerful templates/ drafts
- Graphical, intuitive user interface
- Automated path calculation

#### **Ethernet service topologies**

- E-Line, E-Access, Transit E-Line, E-LAN
- Port-based (EPL)
- VLAN-based (EVPL)
- End-to-end service activation
- Link aggregation groups

#### Service visualization

- Graphical display
- Detailed information of service components on network elements
- Listings
- Physical layer details

#### Service assurance

- Inventory management
- Performance monitoring and SLA compliance monitoring and reporting
- Y.1564 service activation testing and birth certificate generation

#### Fault management

- Alarm lists and root cause analysis
- Mapping of alarms to devices and device failures
- Indication of service status

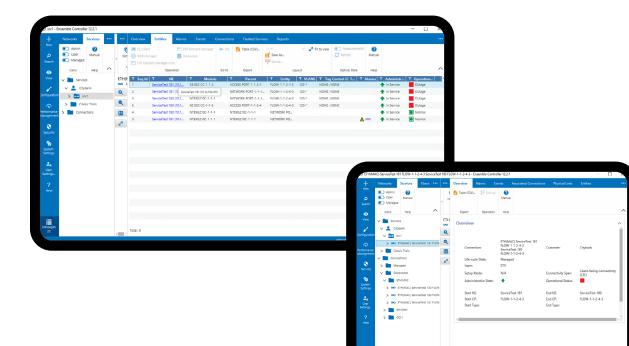
#### Service templates

- Service attributes
- OAM
- Service activation and testing

## Applications in your network

#### Provisioning packet networks with a single end-to-end network management solution

- Fast and efficient activation of new services reduces time-to-revenue
- Comprehensive alarm management functions for initiation action and real-time reporting
- Immediate fault identification with effective performance monitoring and troubleshooting tools
- Seamless operation with full integration into Ensemble Controller solution suite



Adtran

[December] Copyright 6 2022 Adtran Inc. All rights reserved. Adtran believes the information in this publication to be accurate as of publication date, and is not responsible for error. Specifications subject to change without notice. Adtran and the other trademarks listed at www.adtran.com/trademarks are registered trademarks of Adtran, Inc. or its affiliates in volvious countries. All other trademarks mentioned in this document are the property or their expective owners. Adtran warranty duration and entitlements vary by product and geography. For specific warranty information, visit www.adtran.com/warranty

Adtran products may be subject to U.S. export controls and other trade restrictions. Any export, re-export, or transfer of the products contrary to law is prohibited For more information regarding exportation of Adtran items (e.g. commodities, technology, software), please visit www.adtran.com/exportlicense.



