Digital Services Expertise – The New MEF-SDWAN

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Challenges:

- Multi layers and multi domains
- Advance technologies and a different architecture choices
- Disaggregated solution
Martec’s Law – The Organizational Management Challenge

Martec’s Law
Technology changes exponentially (fast), yet organizations change logarithmically (slow).

Management must strategically choose which technological changes to embrace, given the highly constrained bandwidth for absorbing organizational changes.

Source: Chiefmartec.com
Engineering expertise has leaped to become the top business challenge for migrating to dynamic services.

The no. 1 ranked challenge in 2018 was not even in the top 5 as of our 2016 survey!

What are your company’s most significant business challenges for migration to new dynamic services?

Top 5 Business Challenges (% of Respondents)

1. Engineering expertise and technical resources - 90%
2. Orchestration across multiple provider networks - 84%
3. Orchestration across multiple technology domains within our company - 84%
4. Current OSS/BSS systems are inadequate to support new services - 81%
5. Integrating new services with legacy infrastructures - 78%

Source: Migration to MEF 3.0 Services Powered by LSO, MEF & Vertical Systems Group Survey Report, Q4/2018. Percentages related to “major or significant challenge.”
Introducing MEF SD-WAN Professional Certification

The industries only professional certification that validates knowledge, skills, and abilities in the domains of SD-WAN.
MEF SD-WAN Certified Professional (MEF-SDCP) exam

Exam Details: 40 questions in 60 minutes

Language: English

Learning Topics Covered:

- Assessing, planning, and designing scenarios of size and scale, implementations, applications, strategy, and business requirements.
- Implementation: MEF 70 related to business requirements, application flow, policy, underlay services, characteristics, and migration strategy.
- Lifecycle Service Orchestration: service impacting issues, diagnostics, performance metrics, and troubleshooting.
- Components and Features: fundamentals and characteristics of SD-WAN solutions, service components, and service attributes

Cost: US$ To Be Announced
MEF Accredited Training Providers

~90% of MEF certified professionals used a MEF-ATP

They provide certified curriculum & instructors

And consistent quality

CEA
ChaturManas
ECI
Fujitsu

Perpetual Solutions
Delivering Knowledge
Sowan Academy
Tech2000
Telefocal Asia
There are Many Study Options for Preparing for MEF’s Professional Certification.

- Classroom Training – Onsite & remote options
- Self-study
- E-Learning
# MEF-SDCP Study Resources

## Exam Blueprint

<table>
<thead>
<tr>
<th>Section</th>
<th>Topic Description</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Assessing, Planning and Designing</td>
<td>25%</td>
</tr>
<tr>
<td>1.01</td>
<td>Given a scenario, size and scale an SD-WAN solution</td>
<td></td>
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<tr>
<td>1.02</td>
<td>Given a set of business requirements, assess application criticality and demand</td>
<td></td>
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<tr>
<td>1.03</td>
<td>Given a scenario, recommend and justify an SD-WAN strategy based on customer strategy</td>
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<tr>
<td>1.04</td>
<td>Given a scenario, determine integration requirements for a new SD-WAN network into an existing infrastructure</td>
<td></td>
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<tr>
<td>1.05</td>
<td>Compare and contrast infrastructure and operational benefits of SD-WAN with legacy solutions</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Implementation</td>
<td>45%</td>
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<tr>
<td>2.01</td>
<td>Based on business requirements, define Application Flows based upon MEF 70 standard Application Flow criteria</td>
<td></td>
</tr>
<tr>
<td>2.02</td>
<td>Based on business requirements, define and map Policies based upon MEF 70 standard Policy criteria</td>
<td></td>
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<tr>
<td>2.03</td>
<td>Select appropriate Underlay Connectivity Services for an SD-WAN, the types and characteristics of available options</td>
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<tr>
<td>2.04</td>
<td>Given a scenario, recommend a migration strategy from existing SD-WAN service to new SD-WAN service</td>
<td></td>
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<tr>
<td>2.05</td>
<td>Determine IP subnet and address requirements at an SD-WAN service</td>
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<tr>
<td>2.06</td>
<td>Determine security requirements for an SD-WAN service</td>
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<tr>
<td>3</td>
<td>Lifecycle Orchestration</td>
<td>15%</td>
</tr>
<tr>
<td>3.01</td>
<td>Identify common service impacting issues, diagnostic toolsets, and diagnostic actions</td>
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<tr>
<td>3.02</td>
<td>Based on application requirements, determine the metrics for assessing service performance</td>
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<tr>
<td>3.03</td>
<td>Given a scenario, troubleshoot performance issues with an SD-WAN service</td>
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<tr>
<td>4</td>
<td>Components and Features</td>
<td>15%</td>
</tr>
<tr>
<td>4.01</td>
<td>Define the fundamentals and characteristics of an SD-WAN solution according the MEF 70 standard</td>
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<tr>
<td>4.02</td>
<td>Demonstrate knowledge of the MEF 70 components and the functions of SD-WAN service components and Service Attributes</td>
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</tbody>
</table>

**Total:** 100%
MEF-SDCP Study Resources:

**MEF 70, SD-WAN Service Attributes and Services**

**MEF 55, Lifecycle Service Orchestration (LSO): Reference Architecture and Framework**

**RFC 2764: A Framework for IP Based Virtual Private Networks**, IETF

**A deep dive into SD-WAN troubleshooting and monitoring**, TechTarget.com

**What to expect with SD-WAN management, intent and usability**, TechTarget.com

**SD-WAN For Dummies 2nd VMware Special Edition** by Sanjay Uppal, Steve Woo and Dan Pitt

**Understanding SD-WAN Managed Services**, MEF Marketing White Paper (new paper pending)

**Limitations and Differences of using IPsec, TLS/SSL or SSH as VPN-solution**, Ole Martin Dahl
Program Milestones

Nov 8/19
Beta Exam Taking Complete

Nov 18/19
MEF-ATPs Announce Training Availability

Dec 15/19
Beta Participants Receive Scores and Credentials
Commercial Exam Availability
Join The New Generation of MEF Certified Professionals!