

The following notes for the NET3012-IP Architectures and Solutions course are based on the Nokia MPLS (p/n 3HE02276AA) and Nokia Services Architecture (p/n 3HE02277AA) courses from the Nokia Service Routing Certification Program curriculum. These are copyrighted products of Nokia.

MPLS LSP Protection

Essentials: Failure detection; (Hot-)Standby vs non-standby Secondary LSPs

Agenda

- Notice: **Post-lab #12** official due-date 11:59pm **Wed Apr 10** for everyone
- SBA: 2.5 hrs, **Sat Apr 13th**; times/sections posted on BB
- Comments/questions on Test #2:
 - Router Alert IP/MPLS; VPLS is a single switch; FCS calculations
- Review of failure detection: 3 components of overall failure recovery time
- Continue Module 6 on Resiliency: Secondary LSPs and FRR

Assignments and Lab work

- Read: NRS-II Ch 16 and MPLS Module 6 slide deck; due today
- Lab 10 post-lab: due this week (Thu/Sat, according to lab section)
- Lab #11(this week): MPLS resilience – Secondary LSPs and Fast Reroute
- Lab #12 (last one!): VPRN (from SA Lab 9 – VPRN)

IES in Context

Regular Interface	IES
<pre>A:R1# config router int toRx A:R1>config>router# info ----- interface "toRx" address 1.2.3.4/24 ipv6 address 2001:1::1/64 exit port 1/1/1 Can't shut port here no shutdown Default for i/f</pre>	<pre>A:R1># config service ies 1 cust 1 create A:R1>config>service# info ----- shutdown Default for IES! interface "toRy" create address 5.6.7.8/24 ipv6 address 2001:2::2/64 exit sap 1/1/2 [no] shutdown Can shut sap locally!</pre>
<pre>interface "toRa" address 2.3.4.5/24 ipv6 address 2001:3::3/64 exit loopback no shutdown Default for i/f</pre>	<pre>shutdown Default for IES! interface "toRb" create address 6.7.8.9/24 ipv6 address 2001:4::4/64 exit spoke-sdp 12:1 create [no] shutdown Can shut SDP here! no shutdown Separate shut for i/f</pre>