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# Internet Service Provider ARA Project

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**Internet Service Provider ARA Project**  
Arquitectura de Redes Avançada  
Universidade de Aveiro

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# Contents

<b>1</b>	<b>Basic Mechanisms and BGP</b>	<b>2</b>
1.1	Internal BGP & OSPF Redistribution . . . . .	2
1.2	External BGP . . . . .	2
1.3	Private AS . . . . .	2
1.4	Routing Constraints . . . . .	2
1.4.1	Internet Traffic . . . . .	2
1.4.2	Net L1 and Net L2 Preferences . . . . .	2
1.4.3	SIP Proxy 2 Traffic . . . . .	2
1.5	Changes for IPv6 . . . . .	2
<b>2</b>	<b>MPLS</b>	<b>3</b>
2.1	MPLS Tunnel for SIP Traffic . . . . .	3
2.2	MPLS VPN . . . . .	3
<b>3</b>	<b>VoIP SIP</b>	<b>4</b>
3.1	Internal Extensions . . . . .	4
3.2	PTSN Calls Support . . . . .	4
3.3	Forward to SIP Proxy 2 . . . . .	4

# Chapter 1

## Basic Mechanisms and BGP

### 1.1 Internal BGP & OSPF Redistribution

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### 1.2 External BGP

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### 1.3 Private AS

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### 1.4 Routing Constraints

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#### 1.4.1 Internet Traffic

#### 1.4.2 Net L1 and Net L2 Preferences

#### 1.4.3 SIP Proxy 2 Traffic

### 1.5 Changes for IPv6

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## Chapter 2

# MPLS

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### 2.1 MPLS Tunnel for SIP Traffic

### 2.2 MPLS VPN

## Chapter 3

# VoIP SIP

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### 3.1 Internal Extensions

### 3.2 PTSN Calls Support

### 3.3 Forward to SIP Proxy 2