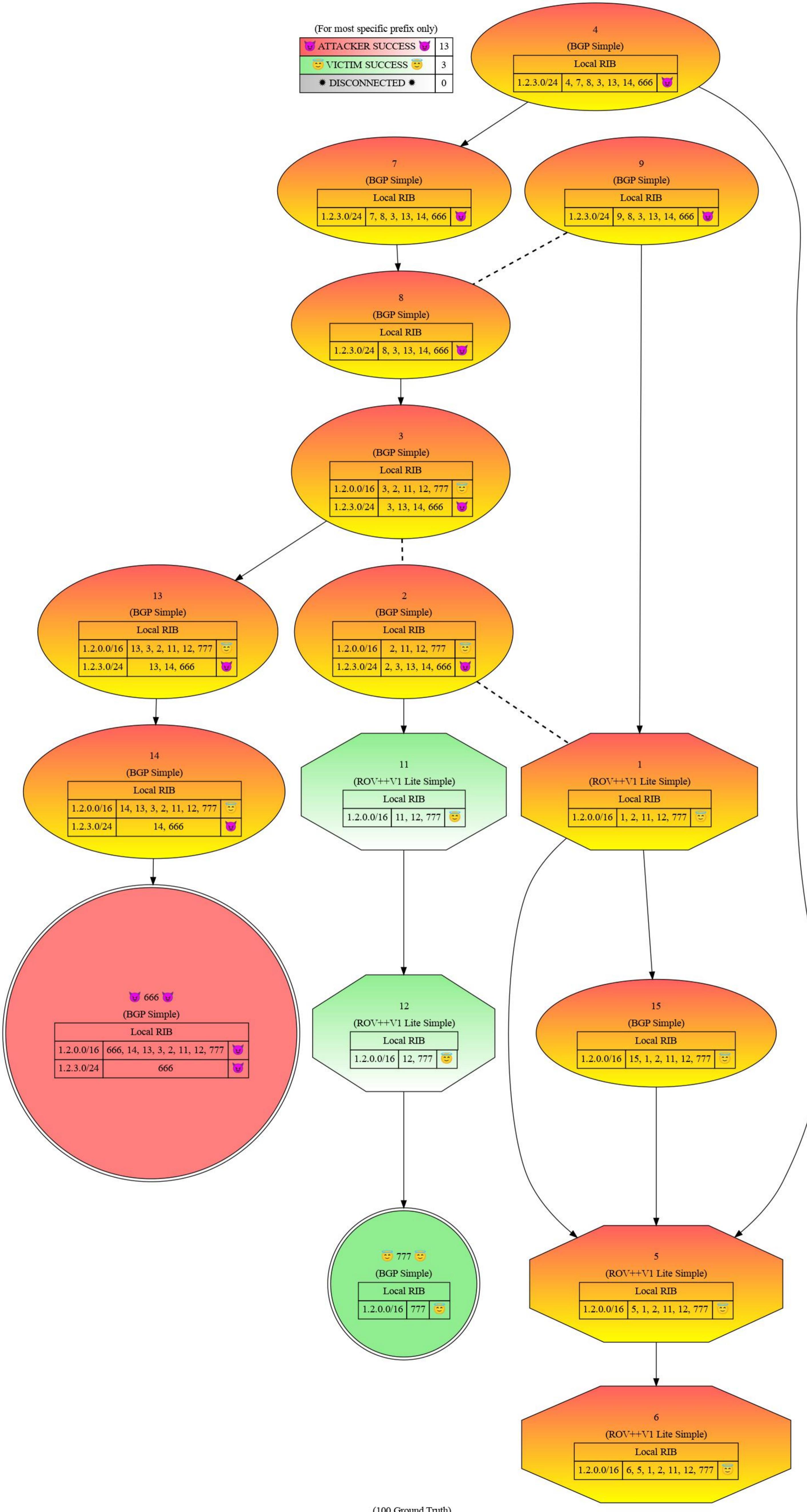


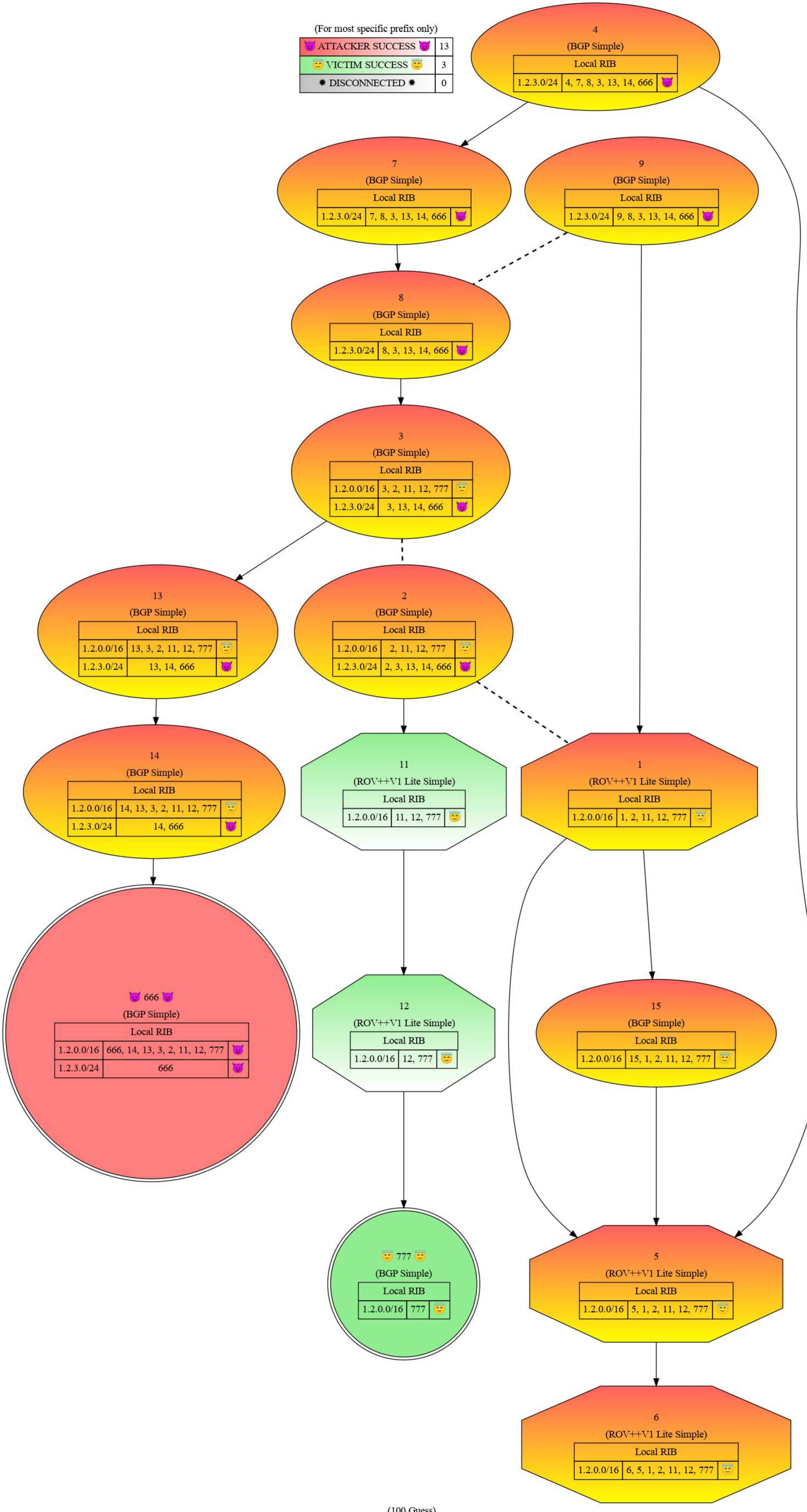
(For most specific prefix only)

ATTACKER SUCCESS	13
VICTIM SUCCESS	3
* DISCONNECTED *	0



(For most specific prefix only)

ATTACKER SUCCESS	13
VICTIM SUCCESS	3
* DISCONNECTED *	0

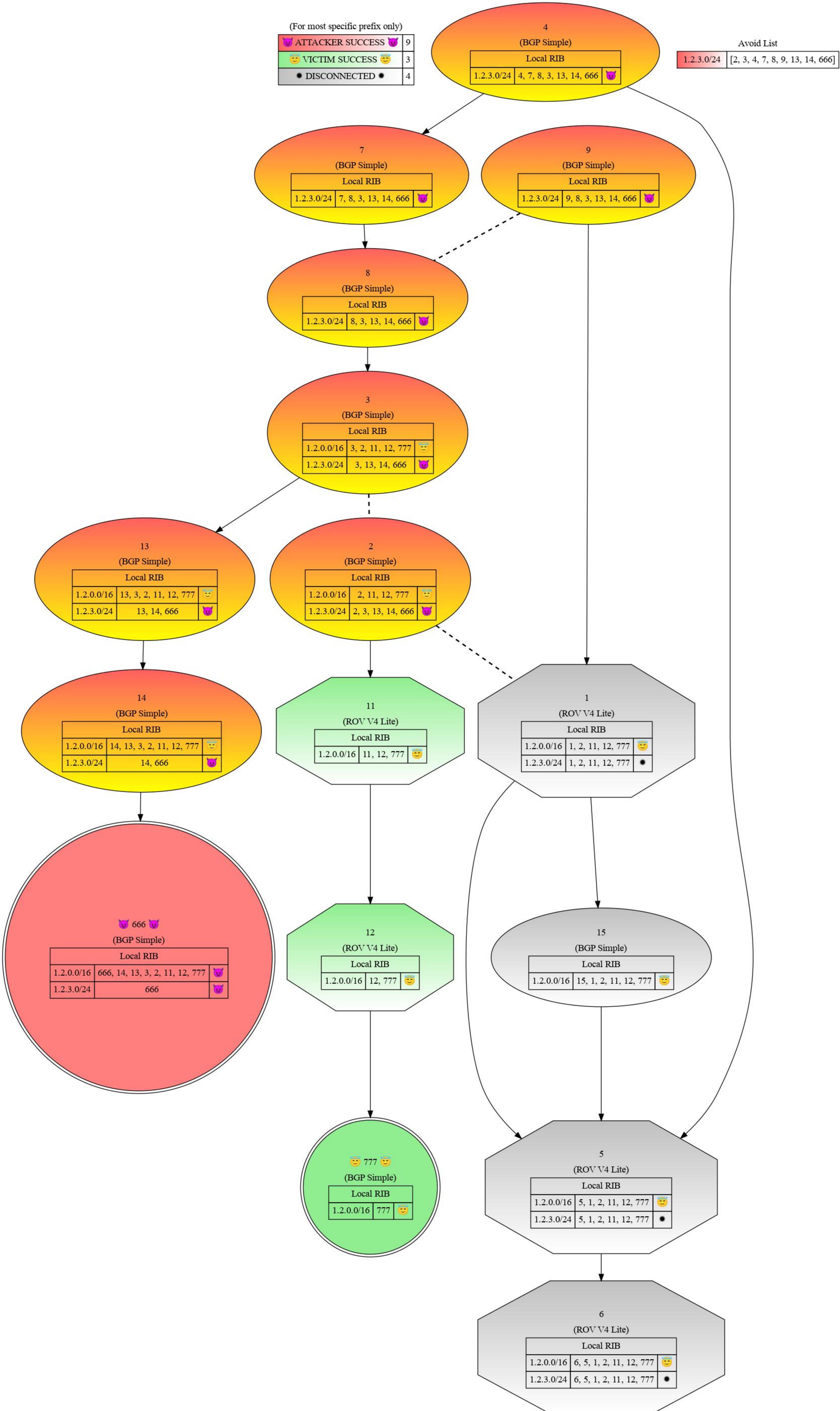


(For most specific prefix only)

ATTACKER SUCCESS	9
VICTIM SUCCESS	3
* DISCONNECTED *	4

Avoid List

1.2.3.0/24 [2, 3, 4, 7, 8, 9, 13, 14, 666]

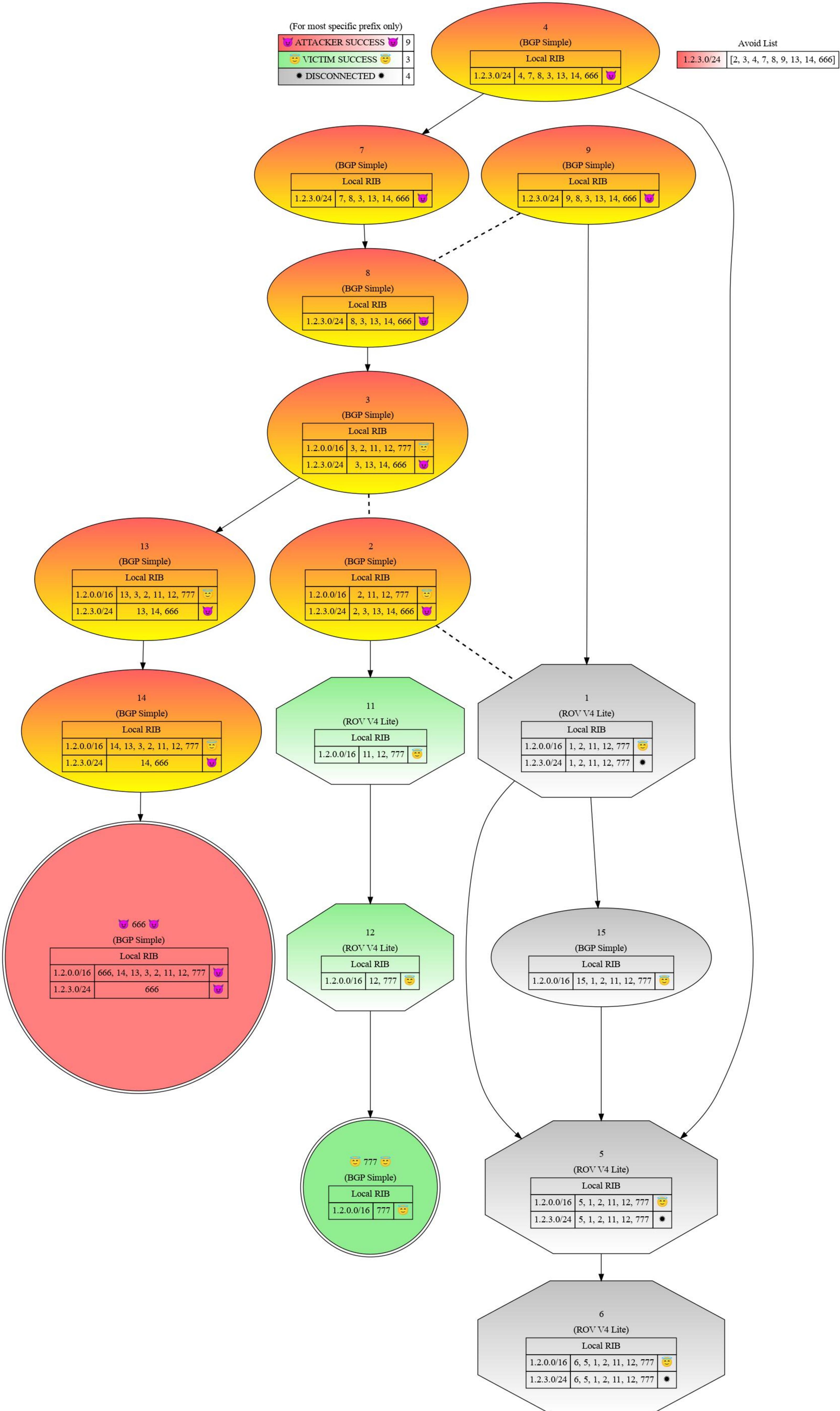


(For most specific prefix only)

ATTACKER SUCCESS	9
VICTIM SUCCESS	3
* DISCONNECTED *	4

Avoid List

1.2.3.0/24 [2, 3, 4, 7, 8, 9, 13, 14, 666]



(For most specific prefix only)

	ATTACKER SUCCESS		13
	VICTIM SUCCESS		3
*	DISCONNECTED	*	0

4

(BGP Simple)

Local RIB

1.2.3.0/24 | 4, 7, 8, 3, 13, 14, 666 |

7

(BGP Simple)

Local RIB

1.2.3.0/24 | 7, 8, 3, 13, 14, 666 |

9

(BGP Simple)

Local RIB

1.2.3.0/24 | 9, 8, 3, 13, 14, 666 |

8

(BGP Simple)

Local RIB

1.2.3.0/24 | 8, 3, 13, 14, 666 |

3

(BGP Simple)

Local RIB

1.2.0.0/16 | 3, 2, 11, 12, 777 |

1.2.3.0/24 | 3, 13, 14, 666 |

13

(BGP Simple)

Local RIB

1.2.0.0/16 | 13, 3, 2, 11, 12, 777 |

1.2.3.0/24 | 13, 14, 666 |

14

(BGP Simple)

Local RIB

1.2.0.0/16 | 14, 13, 3, 2, 11, 12, 777 |

1.2.3.0/24 | 14, 666 |

11

(ROVV4 Lite K1)

Local RIB

1.2.0.0/16 | 11, 12, 777 |

666

(BGP Simple)

Local RIB

1.2.0.0/16 | 666, 14, 13, 3, 2, 11, 12, 777 |

1.2.3.0/24 | 666 |

12

(ROVV4 Lite K1)

Local RIB

1.2.0.0/16 | 12, 777 |

(BGP Simple)

Local RIB

1.2.0.0/16 | 777 |

15

(BGP Simple)

Local RIB

1.2.0.0/16 | 15, 1, 2, 11, 12, 777 |

5

(ROVV4 Lite K1)

Local RIB

1.2.0.0/16 | 5, 1, 2, 11, 12, 777 |

6

(ROVV4 Lite K1)

Local RIB

1.2.0.0/16 | 6, 5, 1, 2, 11, 12, 777 |

(102 Ground Truth)

Subprefix Hijack with V4 Lite k=1.

Traceback for 1.2.3.0/24

Avoid List

1.2.3.0/24 [3, 8]

(For most specific prefix only)	
ATTACKER SUCCESS	13
VICTIM SUCCESS	3
* DISCONNECTED *	0

4

(BGP Simple)

Local RIB

1.2.3.0/24 | 4, 7, 8, 3, 13, 14, 666



7

(BGP Simple)

Local RIB

1.2.3.0/24 | 7, 8, 3, 13, 14, 666



9

(BGP Simple)

Local RIB

1.2.3.0/24 | 9, 8, 3, 13, 14, 666



8

(BGP Simple)

Local RIB

1.2.3.0/24 | 8, 3, 13, 14, 666



3

(BGP Simple)

Local RIB

1.2.0.0/16 | 3, 2, 11, 12, 777



1.2.3.0/24 | 3, 13, 14, 666



13

(BGP Simple)

Local RIB

1.2.0.0/16 | 13, 3, 2, 11, 12, 777



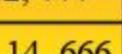
1.2.3.0/24 | 13, 14, 666

2

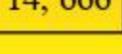
(BGP Simple)

Local RIB

1.2.0.0/16 | 2, 11, 12, 777



1.2.3.0/24 | 2, 3, 13, 14, 666



14

(BGP Simple)

Local RIB

1.2.0.0/16 | 14, 13, 3, 2, 11, 12, 777



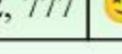
1.2.3.0/24 | 14, 666

11

(ROV V4 Lite K1)

Local RIB

1.2.0.0/16 | 11, 12, 777

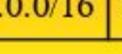


1

(ROV V4 Lite K1)

Local RIB

1.2.0.0/16 | 1, 2, 11, 12, 777



666

(BGP Simple)

Local RIB

1.2.0.0/16 | 666, 14, 13, 3, 2, 11, 12, 777



1.2.3.0/24 | 666



12

(ROV V4 Lite K1)

Local RIB

1.2.0.0/16 | 12, 777

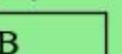


777

(BGP Simple)

Local RIB

1.2.0.0/16 | 777

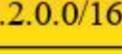


15

(BGP Simple)

Local RIB

1.2.0.0/16 | 15, 1, 2, 11, 12, 777

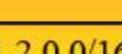


5

(ROV V4 Lite K1)

Local RIB

1.2.0.0/16 | 5, 1, 2, 11, 12, 777



6

(ROV V4 Lite K1)

Local RIB

1.2.0.0/16 | 6, 5, 1, 2, 11, 12, 777



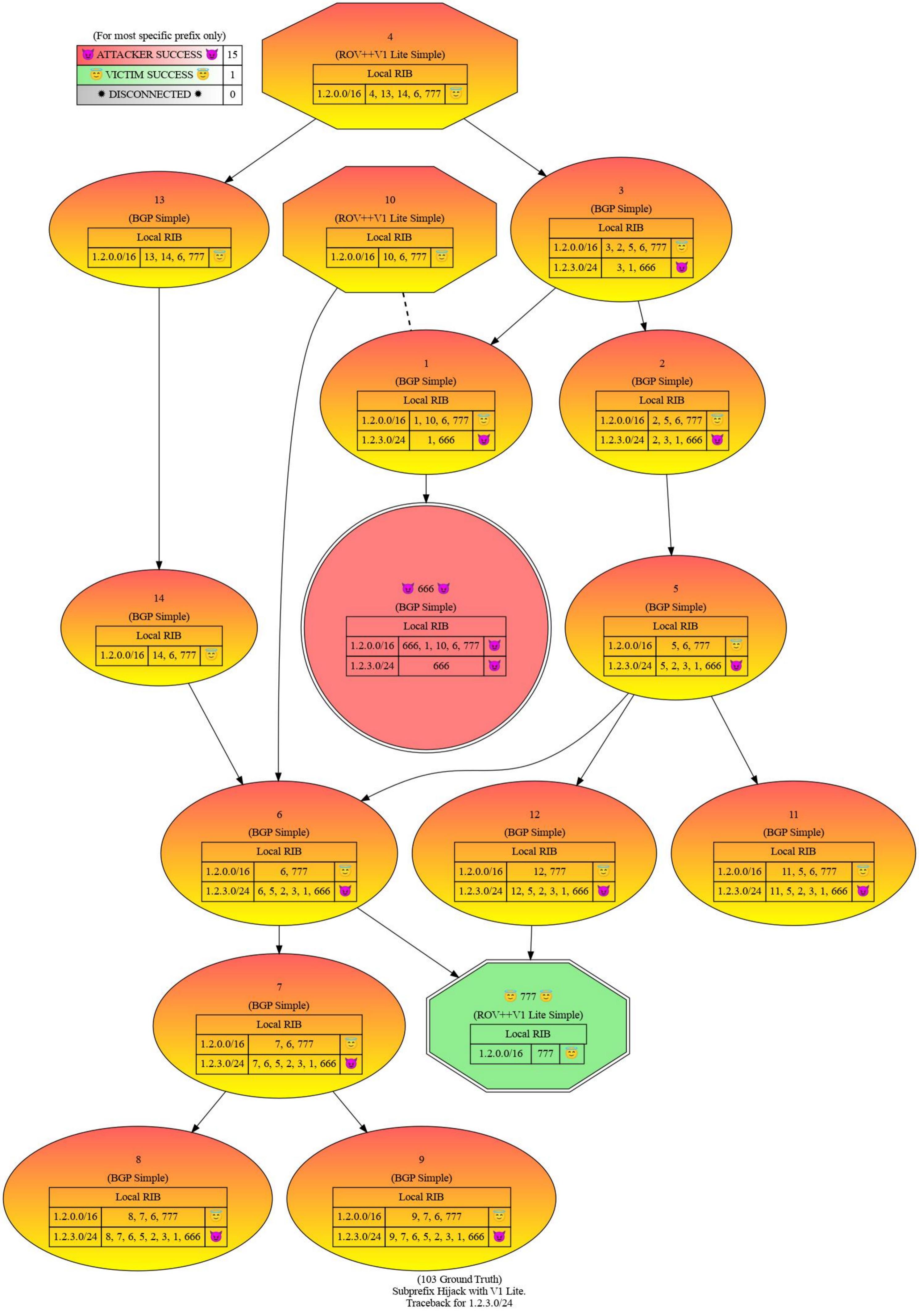
(102 Guess)  
Subprefix Hijack with V4 Lite k=1.  
Traceback for 1.2.3.0/24

Avoid List

1.2.3.0/24 [3, 8]

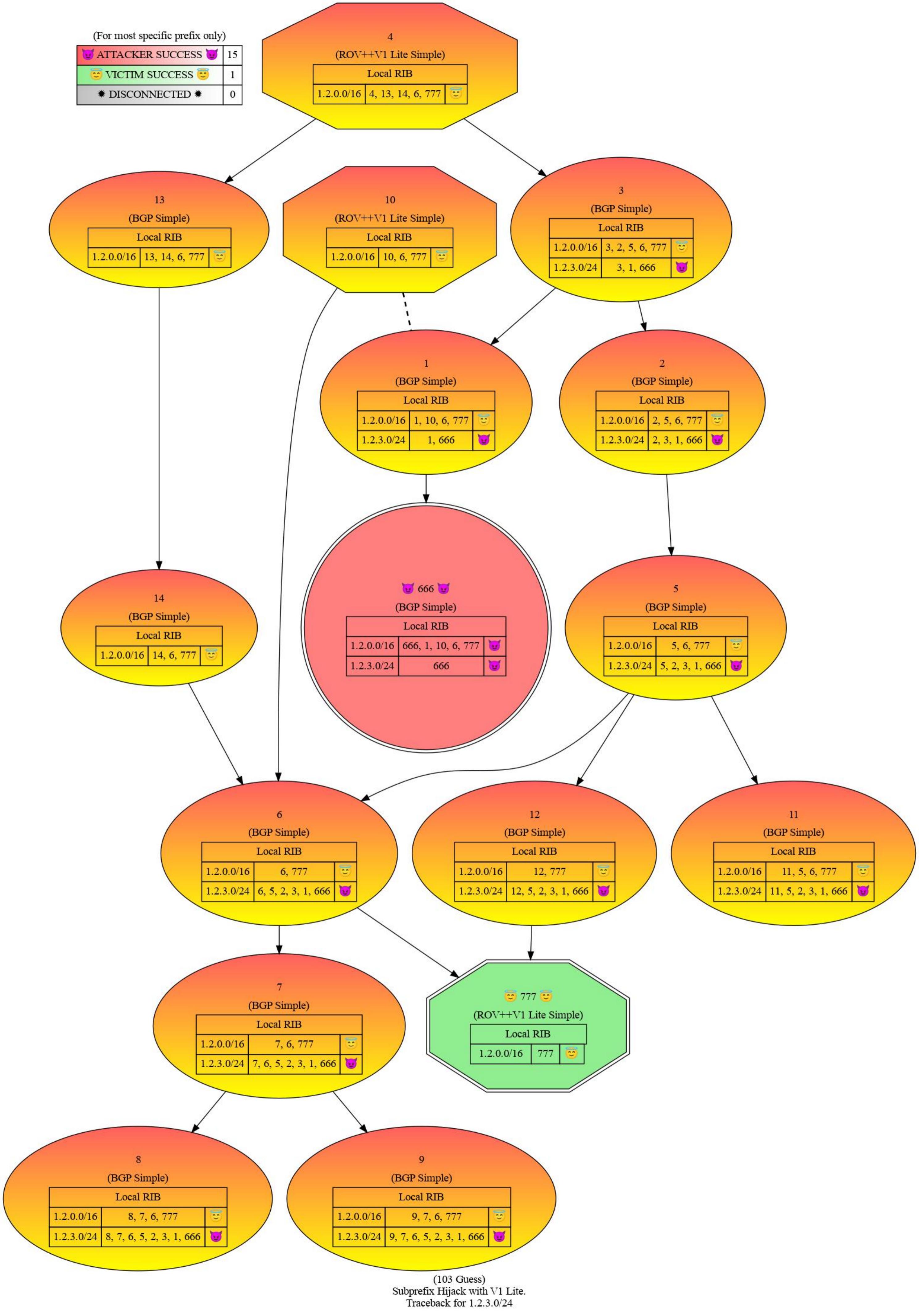
(For most specific prefix only)

ATTACKER SUCCESS	15
VICTIM SUCCESS	1
DISCONNECTED	0



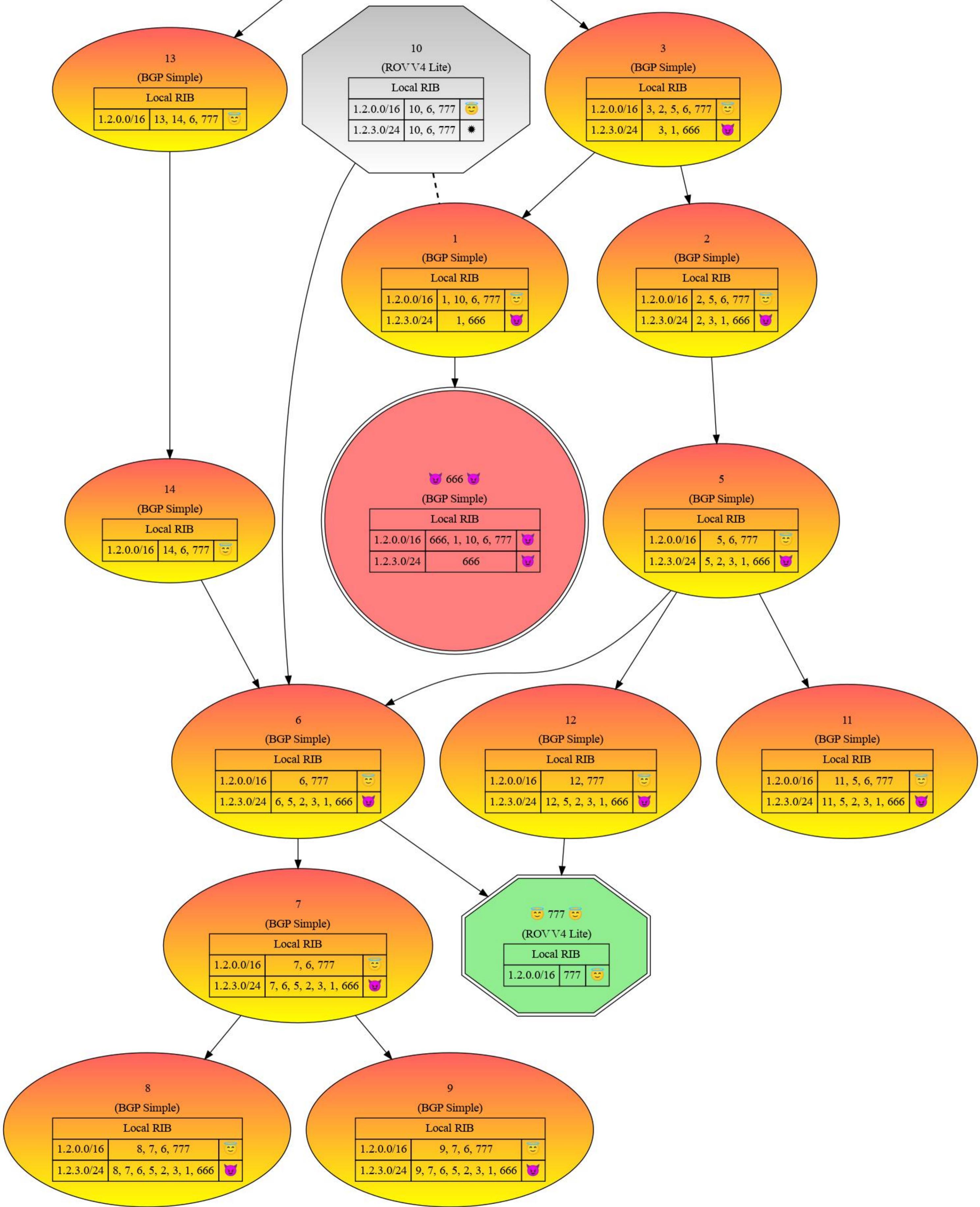
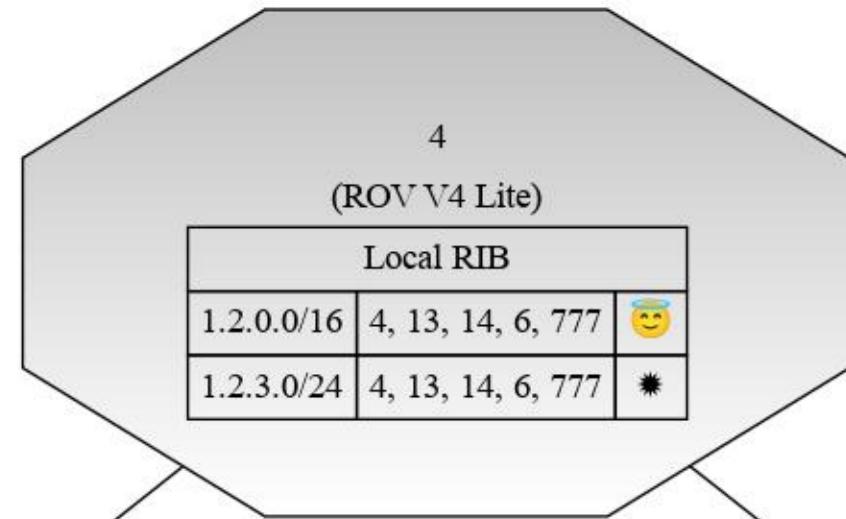
(For most specific prefix only)

ATTACKER SUCCESS 😺	15
VICTIM SUCCESS 😊	1
DISCONNECTED *	0



(For most specific prefix only)

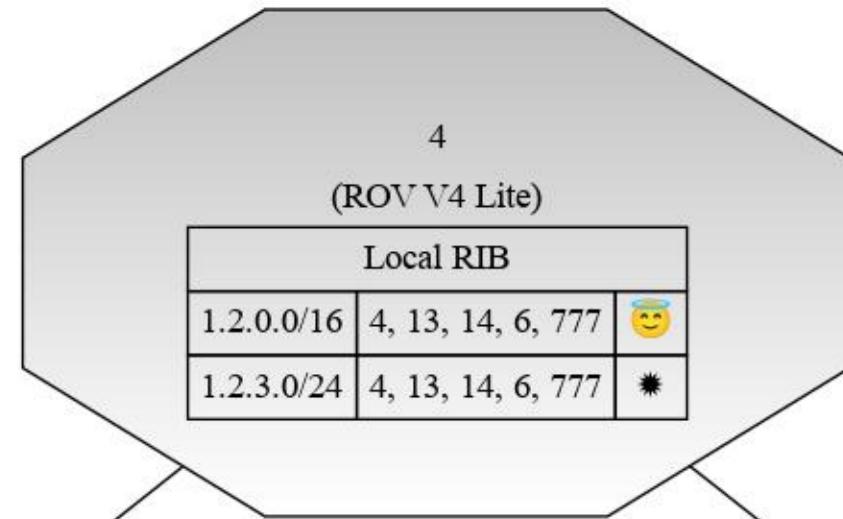
ATTACKER SUCCESS	13
VICTIM SUCCESS	1
* DISCONNECTED *	2



(104 Ground Truth)  
Subprefix Hijack with V4 Lite.  
Traceback for 1.2.3.0/24

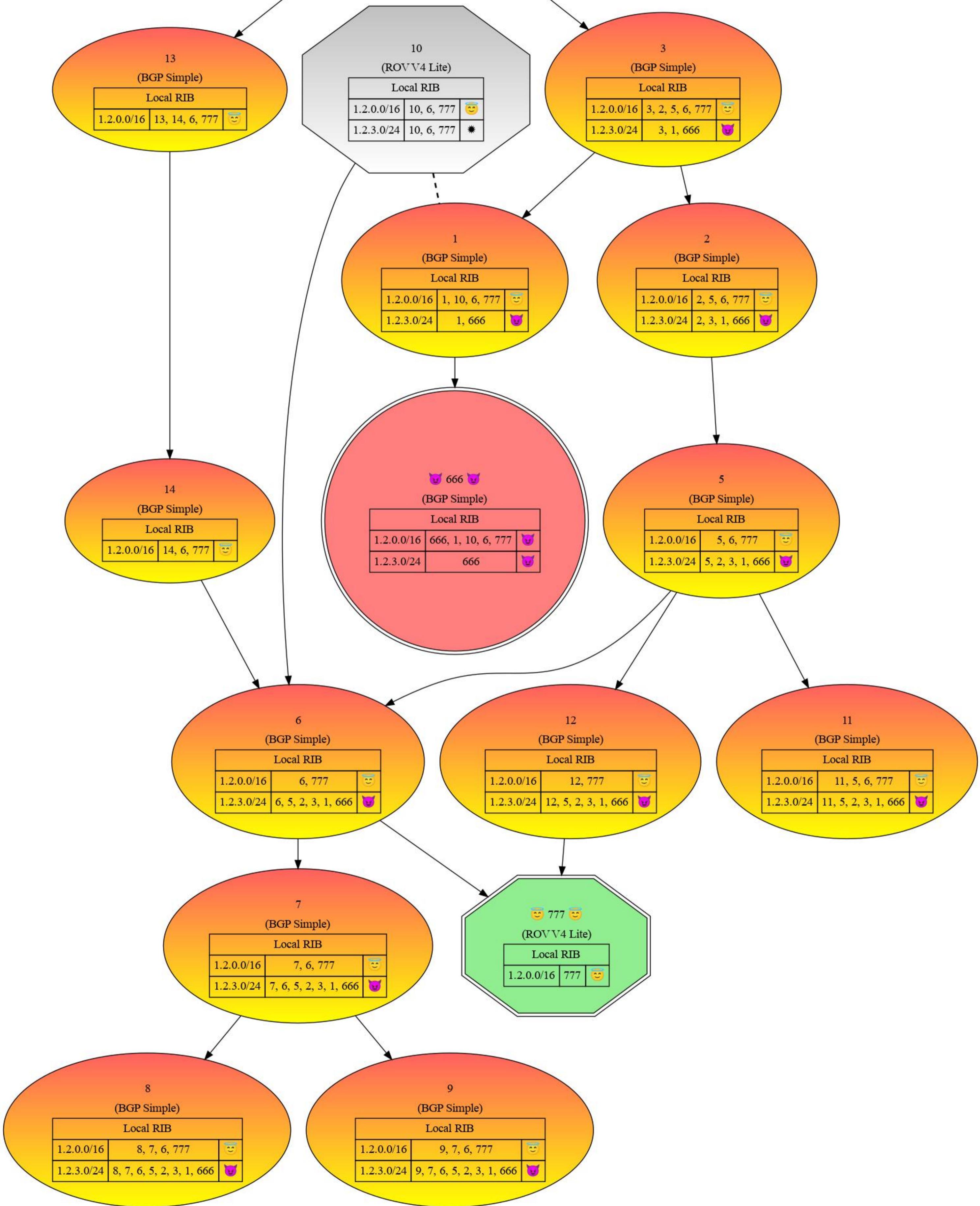
(For most specific prefix only)

ATTACKER SUCCESS	13
VICTIM SUCCESS	1
* DISCONNECTED *	2



Avoid List

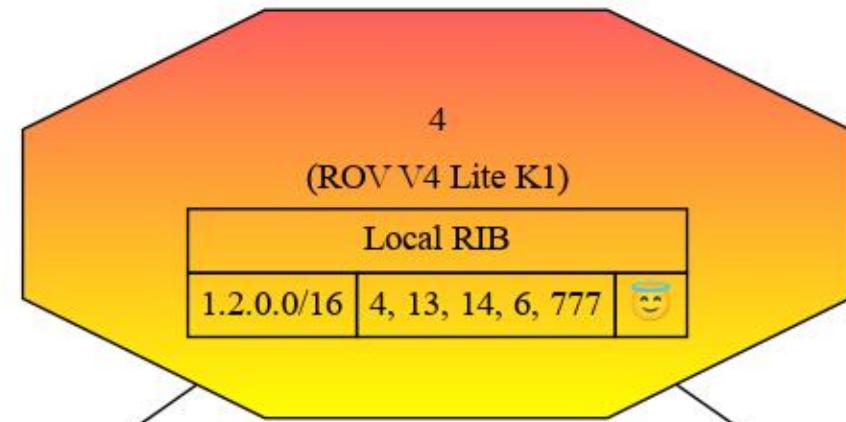
1.2.3.0/24	[1, 2, 3, 5, 6, 12, 666]
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(104 Guess)  
Subprefix Hijack with V4 Lite.  
Traceback for 1.2.3.0/24

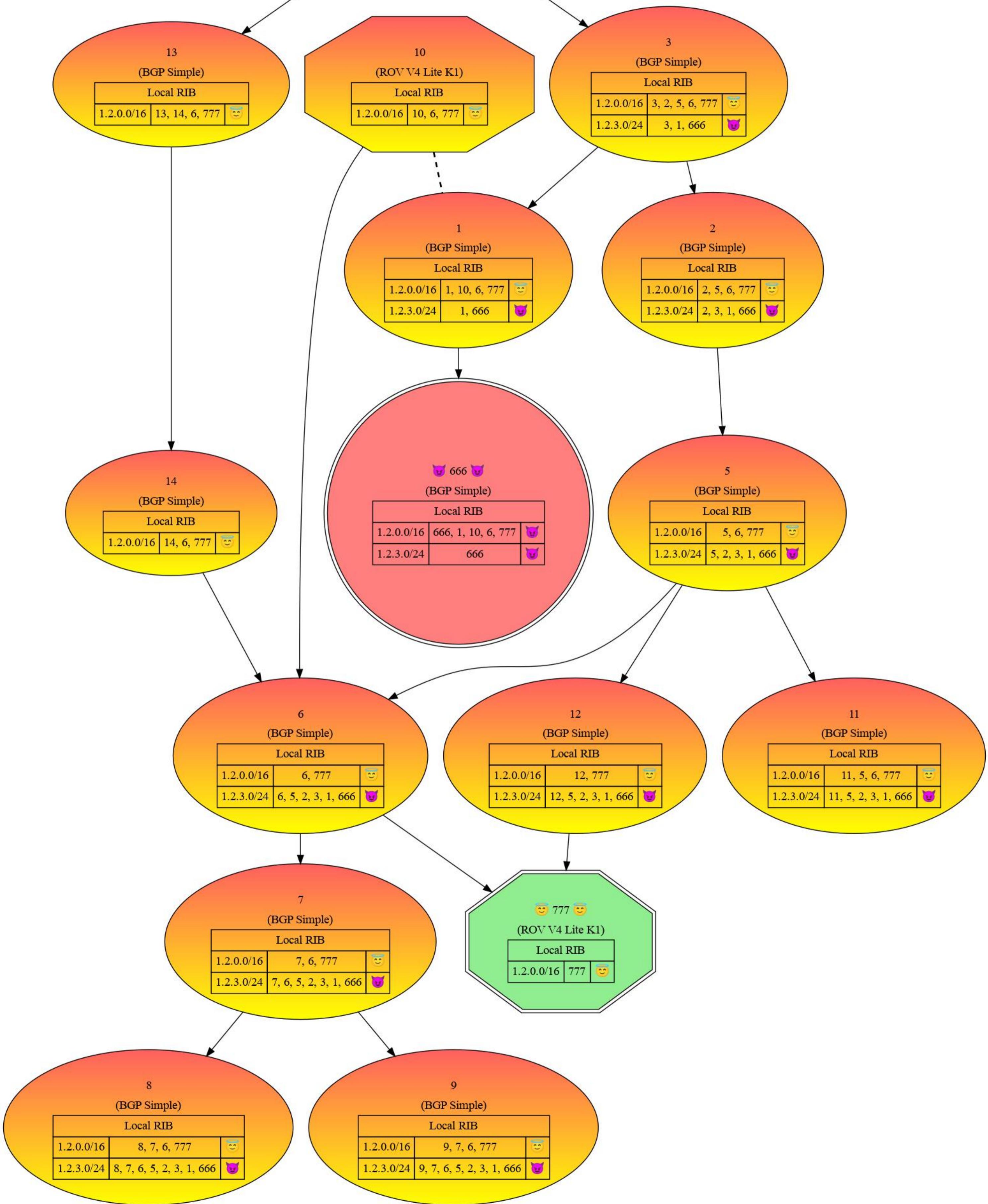
(For most specific prefix only)

ATTACKER SUCCESS	15
VICTIM SUCCESS	1
DISCONNECTED	0



Avoid List

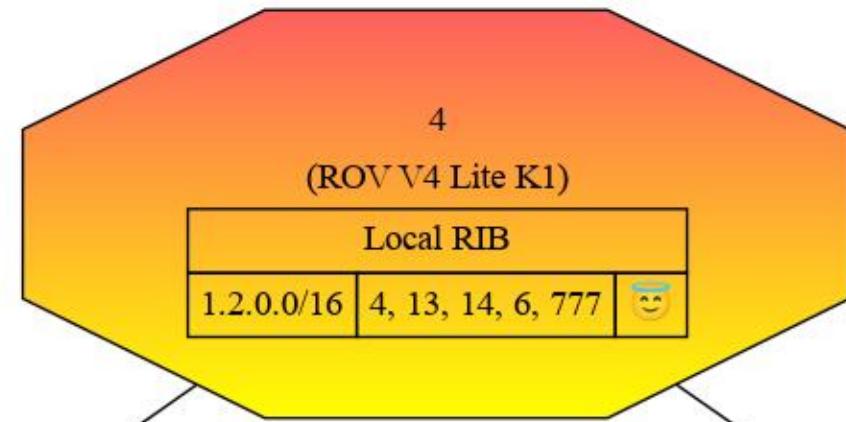
1.2.3.0/24	[1, 3]
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(105 Ground Truth)  
Subprefix Hijack with V4 Lite k=1.  
Traceback for 1.2.3.0/24

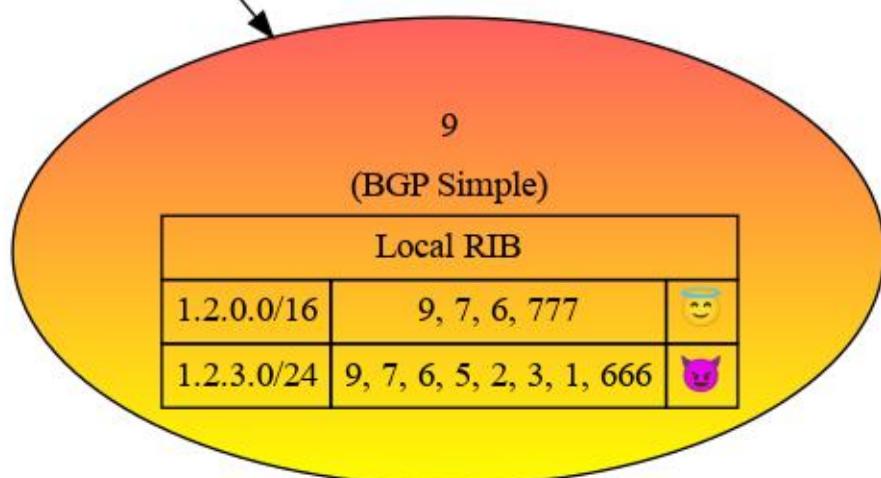
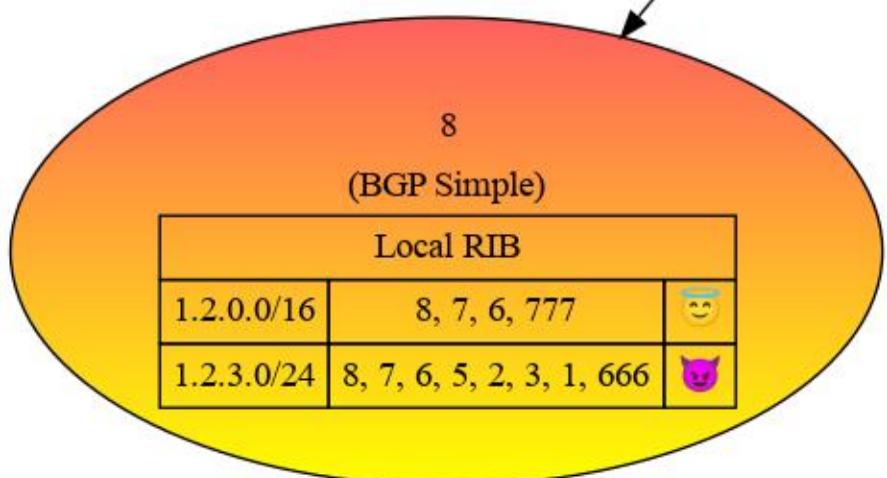
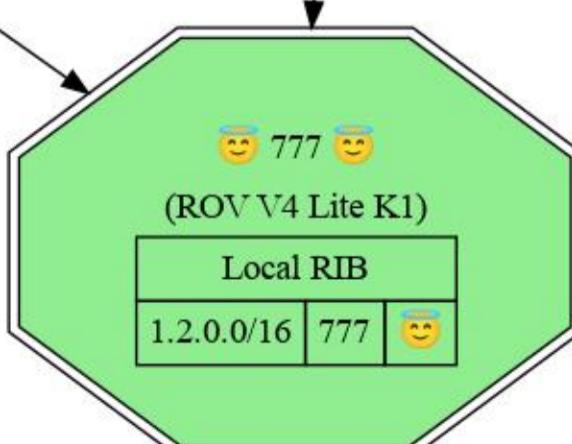
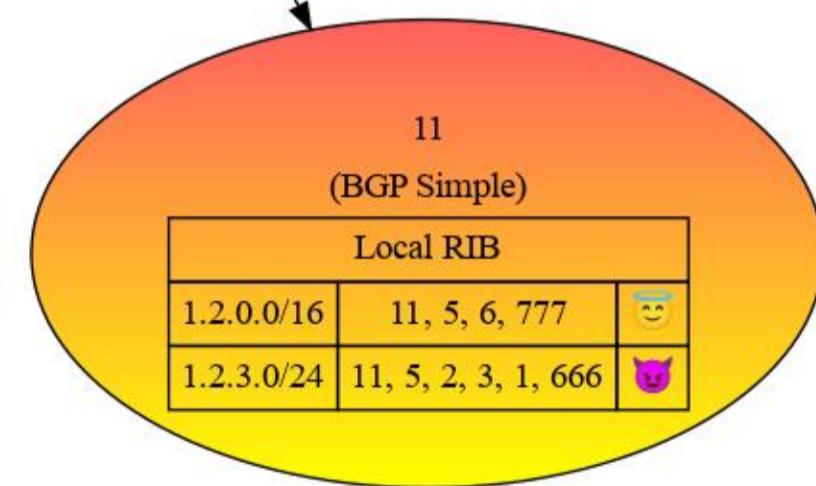
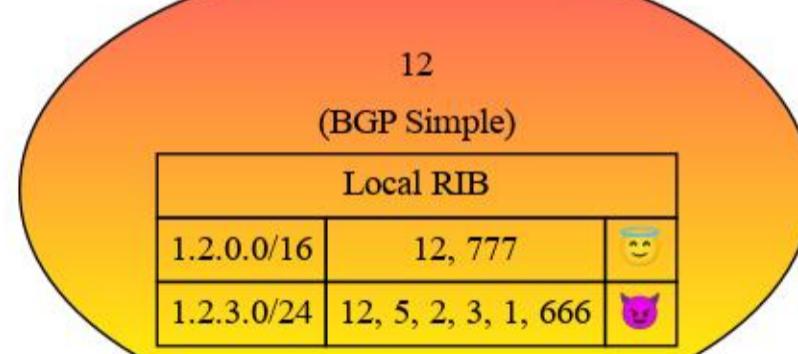
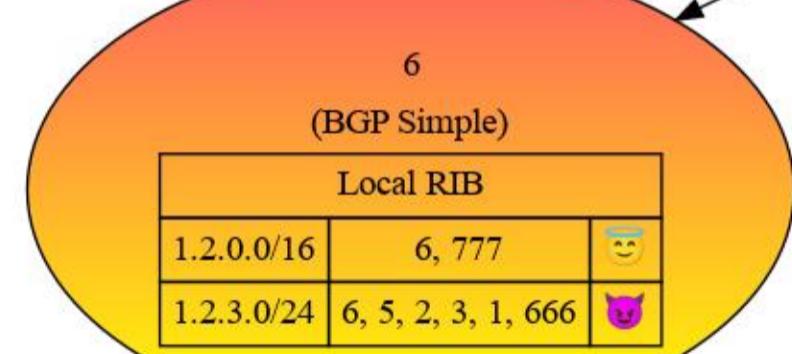
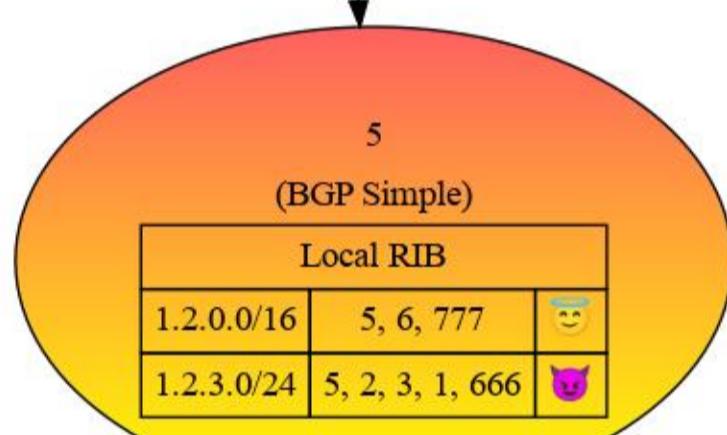
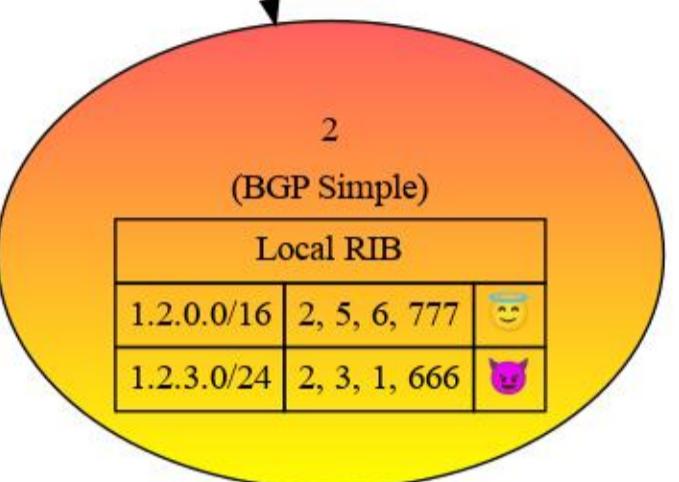
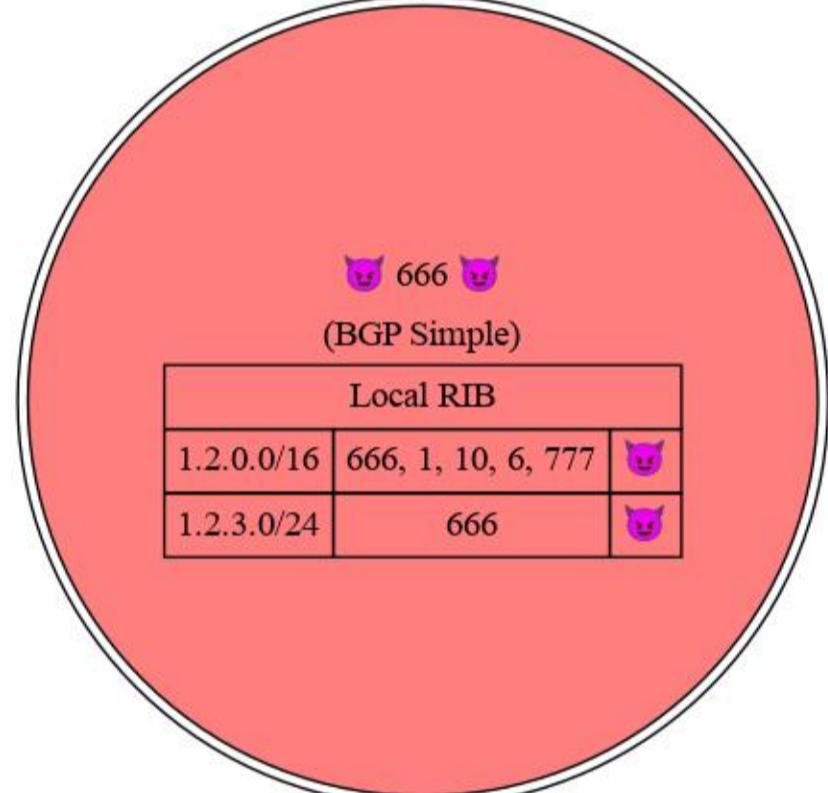
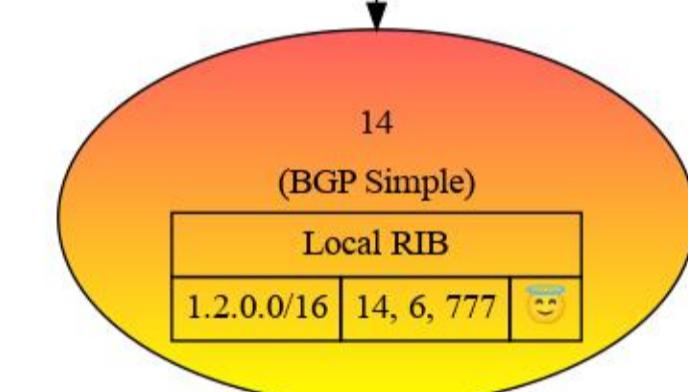
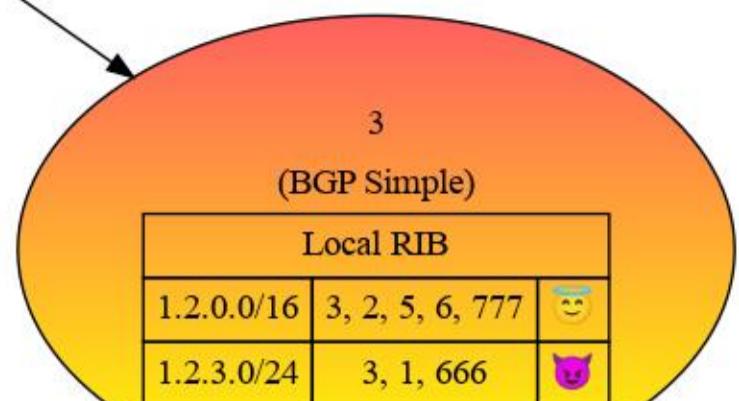
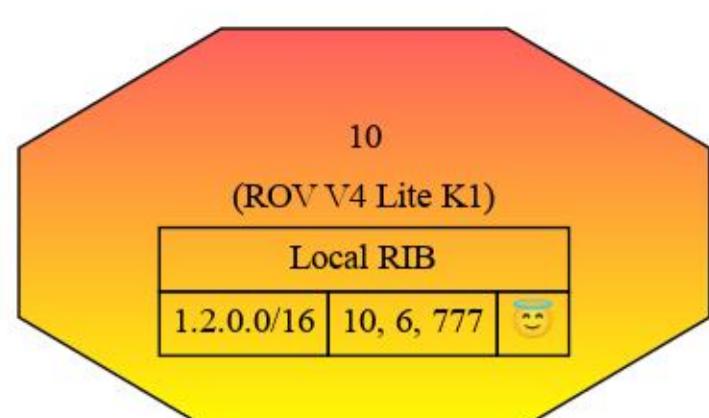
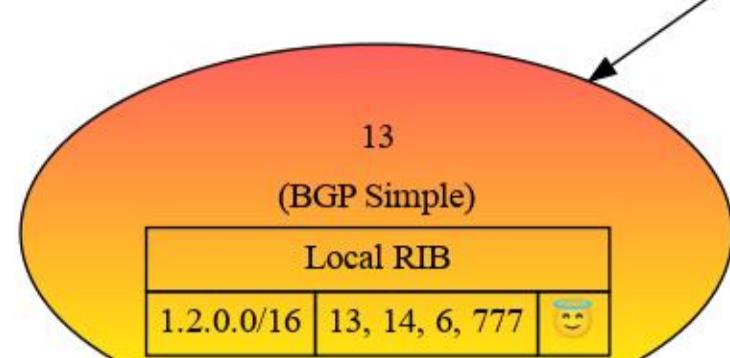
(For most specific prefix only)

ATTACKER SUCCESS	15
VICTIM SUCCESS	1
DISCONNECTED	0



Avoid List

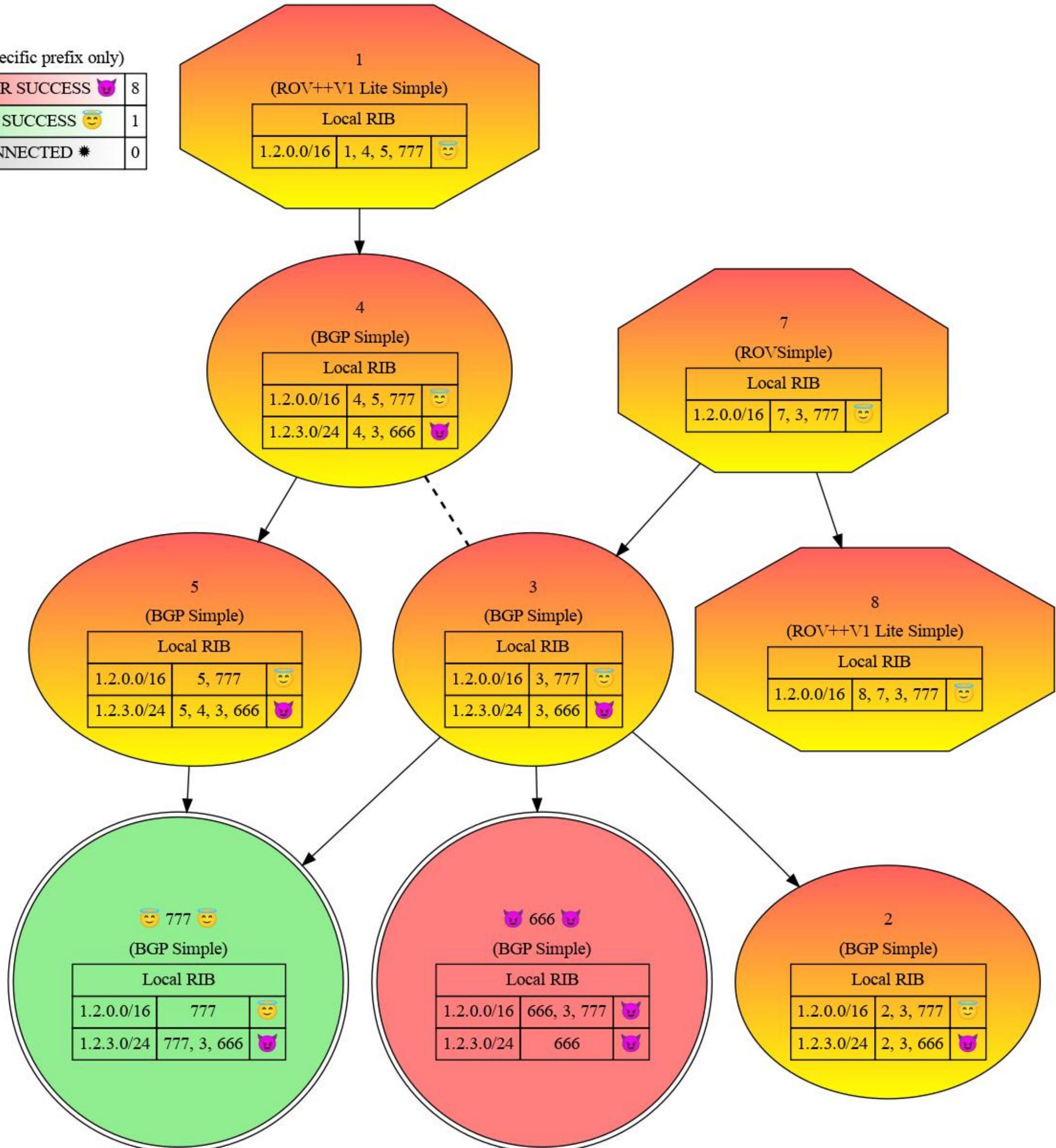
1.2.3.0/24	[1, 3]
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(105 Guess)  
Subprefix Hijack with V4 Lite k=1.  
Traceback for 1.2.3.0/24

(For most specific prefix only)

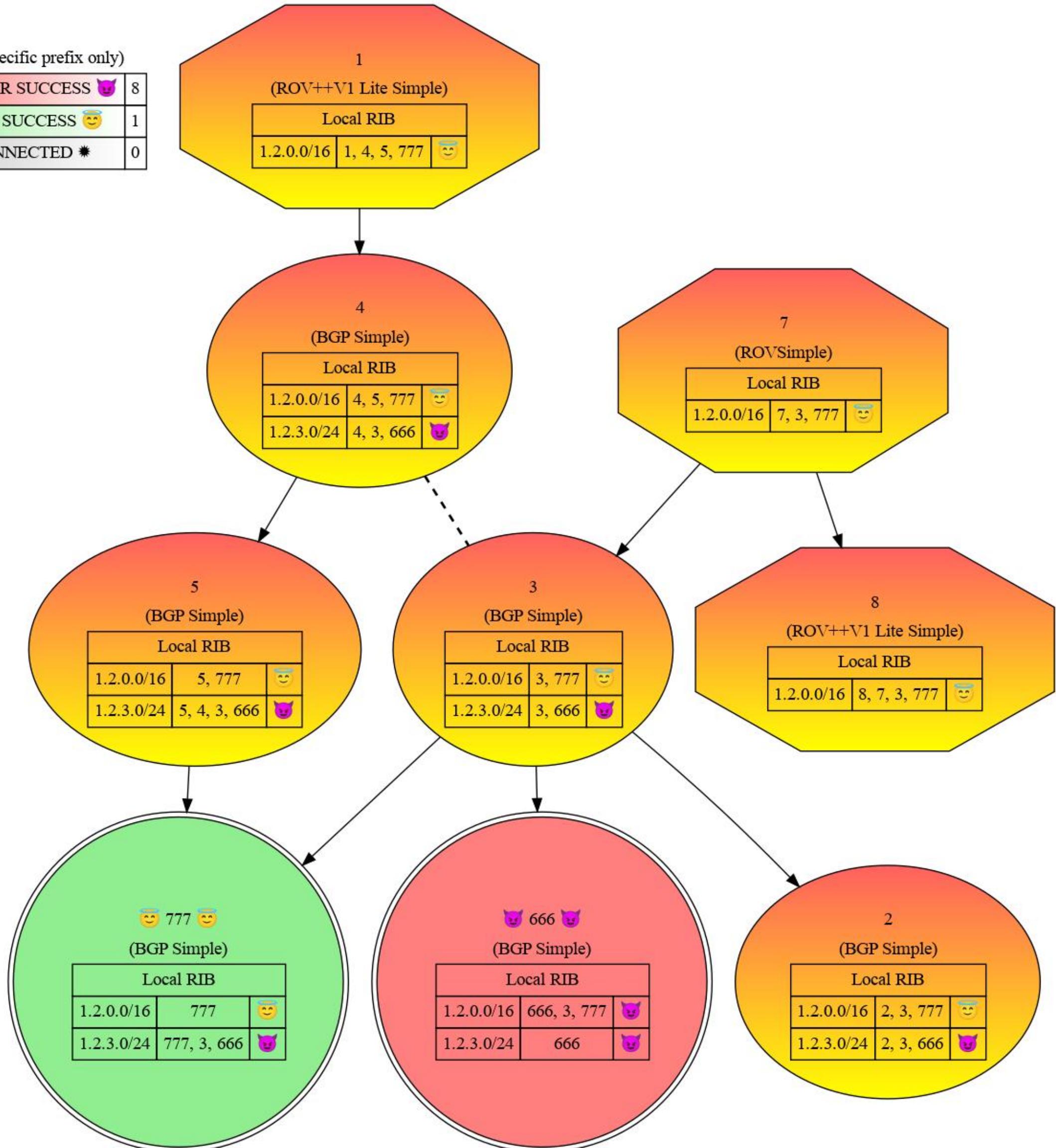
ATTACKER SUCCESS	8
VICTIM SUCCESS	1
* DISCONNECTED *	0



(106 Ground Truth)  
Subprefix Hijack with V1 Lite.  
Traceback for 1.2.3.0/24

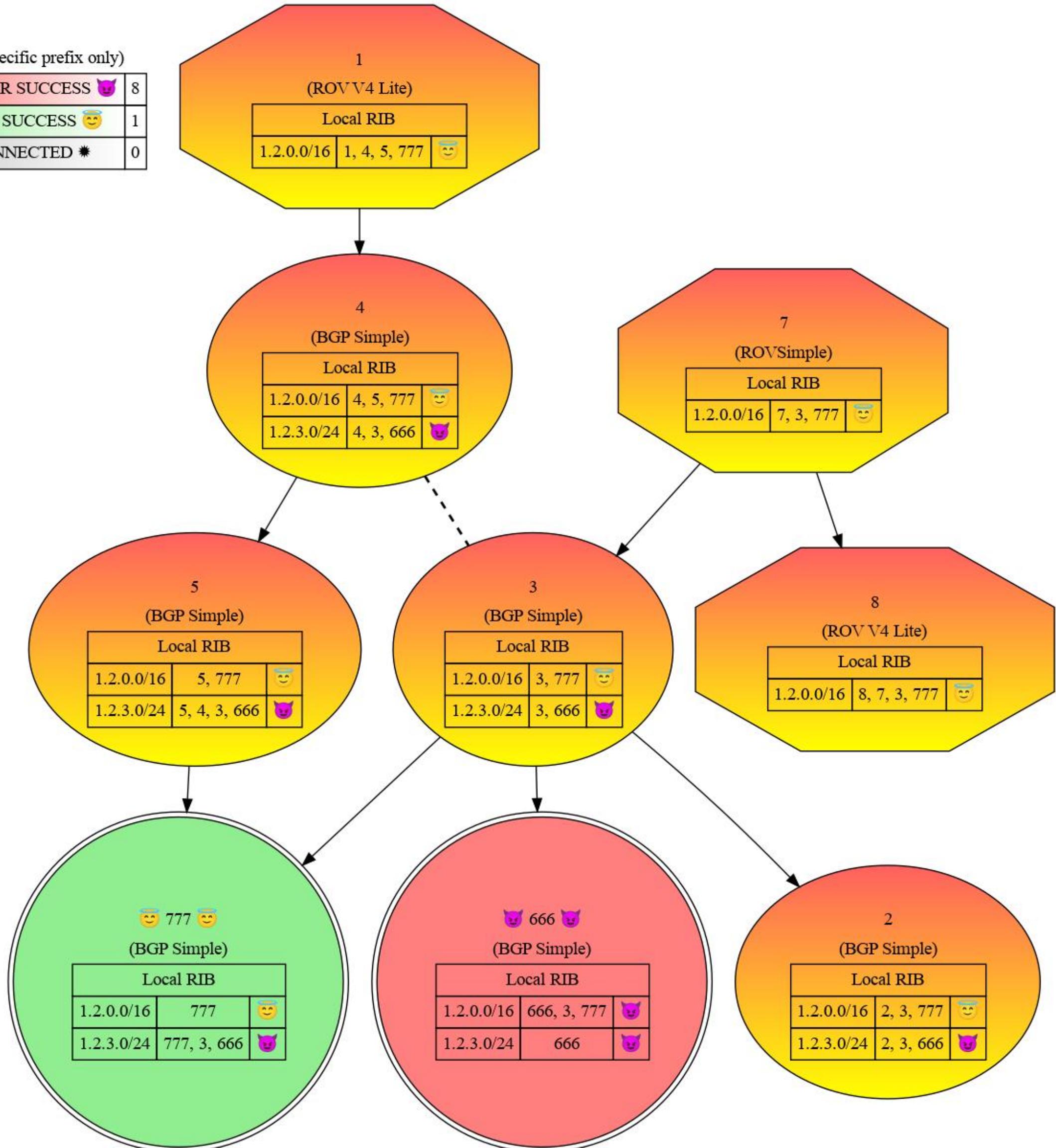
(For most specific prefix only)

ATTACKER SUCCESS	8
VICTIM SUCCESS	1
* DISCONNECTED *	0



(For most specific prefix only)

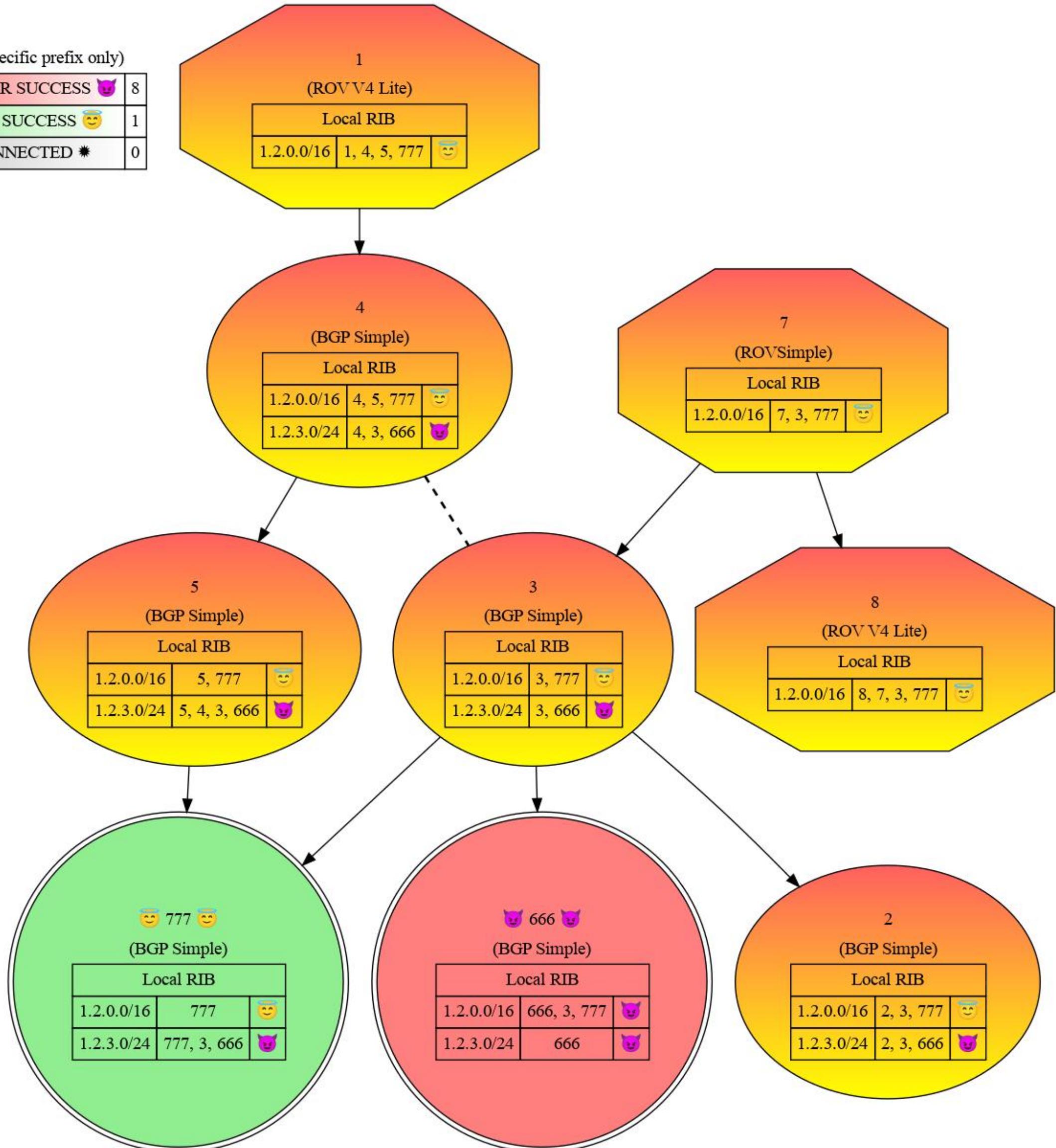
ATTACKER SUCCESS	8
VICTIM SUCCESS	1
* DISCONNECTED *	0



(107 Ground Truth)  
Subprefix Hijack with V4 Lite.  
Traceback for 1.2.3.0/24

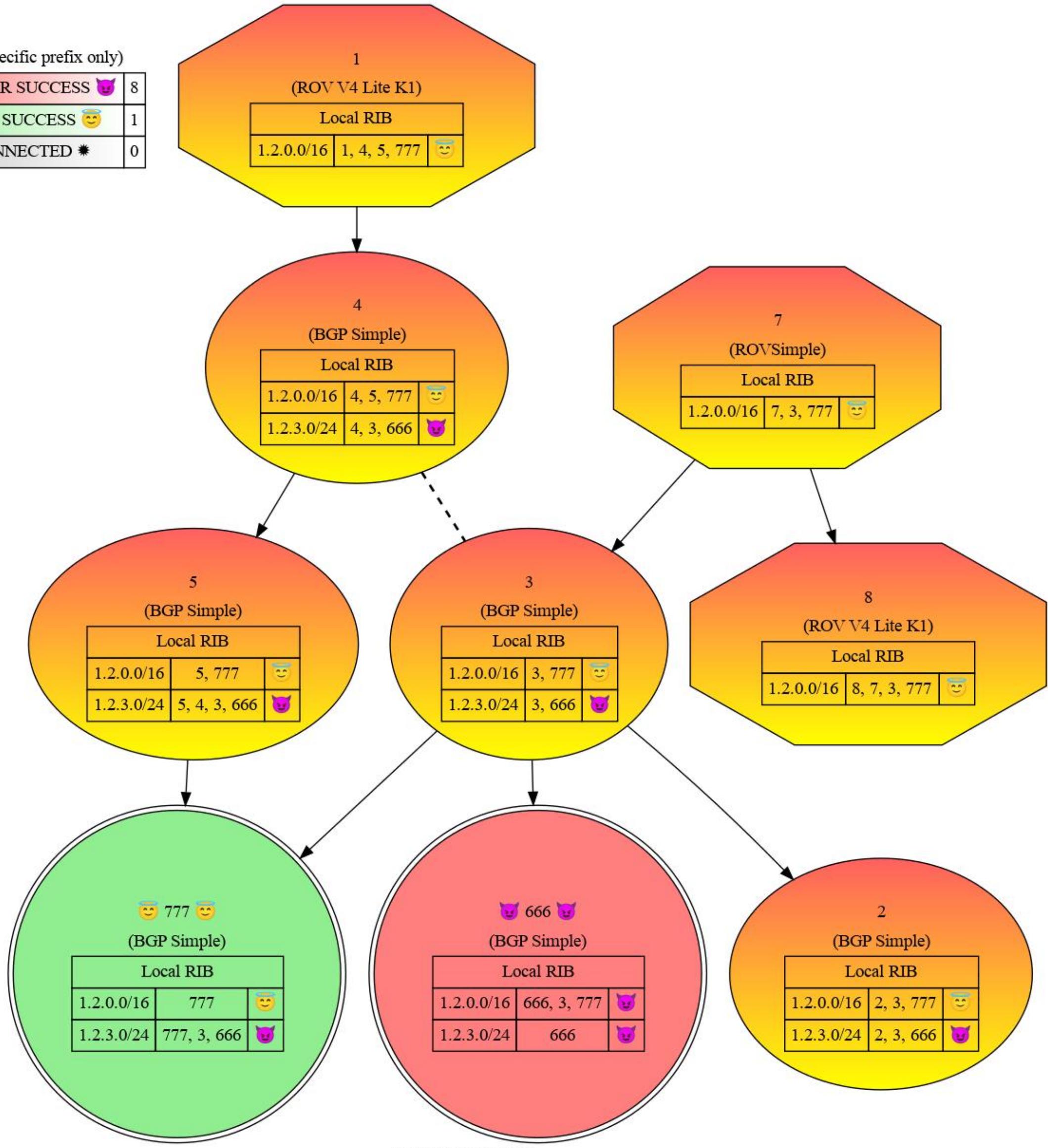
(For most specific prefix only)

ATTACKER SUCCESS	8
VICTIM SUCCESS	1
* DISCONNECTED *	0



(For most specific prefix only)

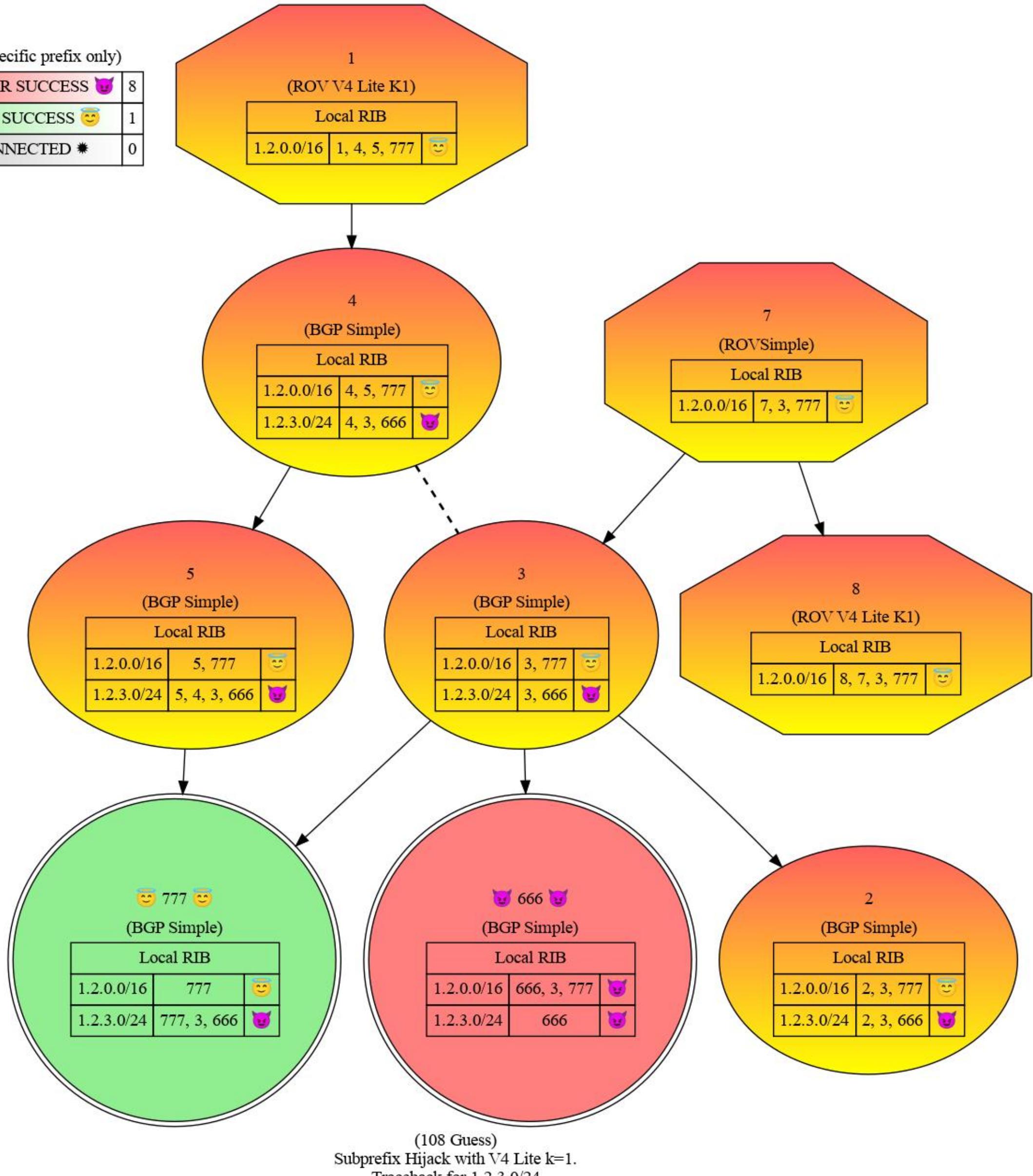
ATTACKER SUCCESS	8
VICTIM SUCCESS	1
* DISCONNECTED *	0



(108 Ground Truth)  
Subprefix Hijack with V4 Lite k=1.  
Traceback for 1.2.3.0/24

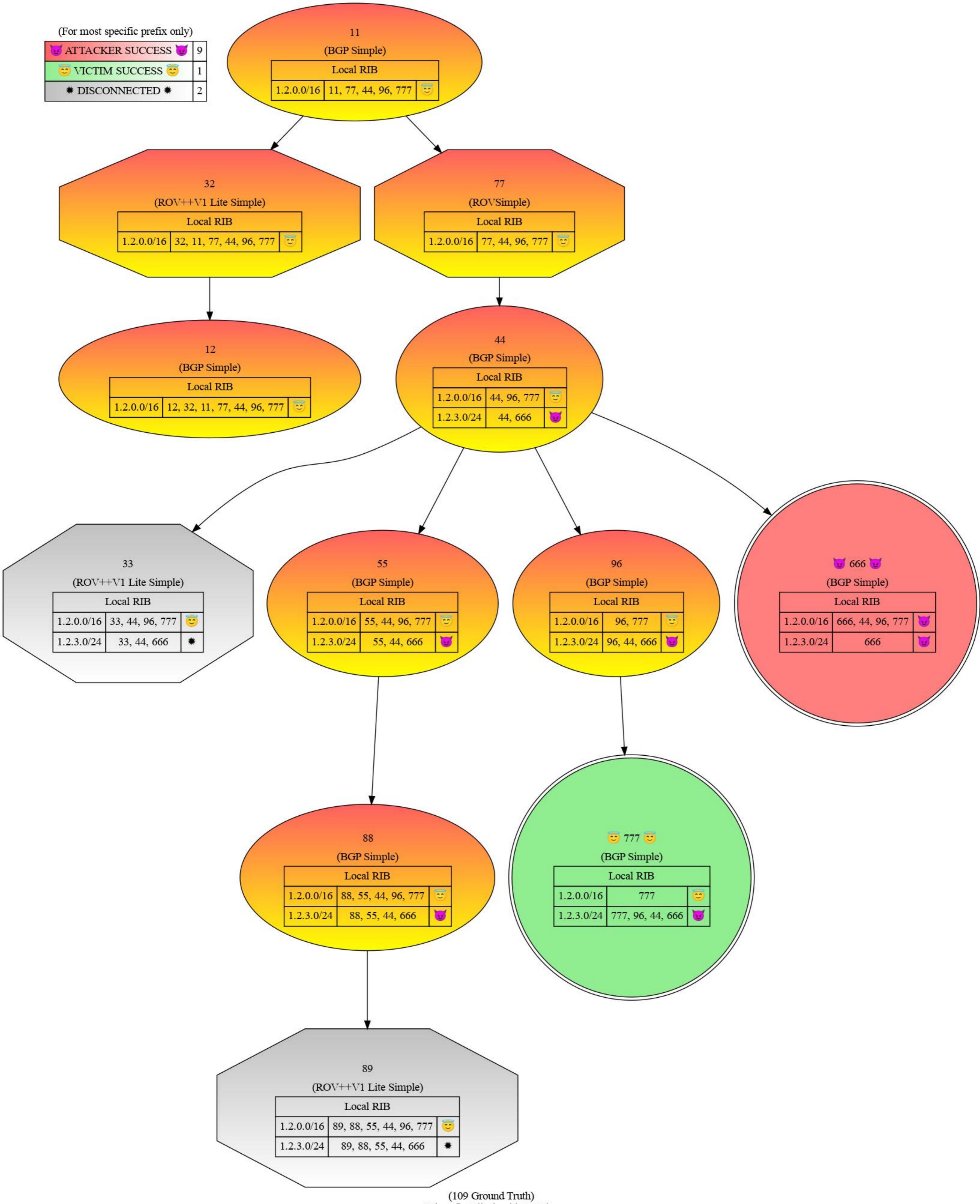
(For most specific prefix only)

ATTACKER SUCCESS	8
VICTIM SUCCESS	1
* DISCONNECTED *	0



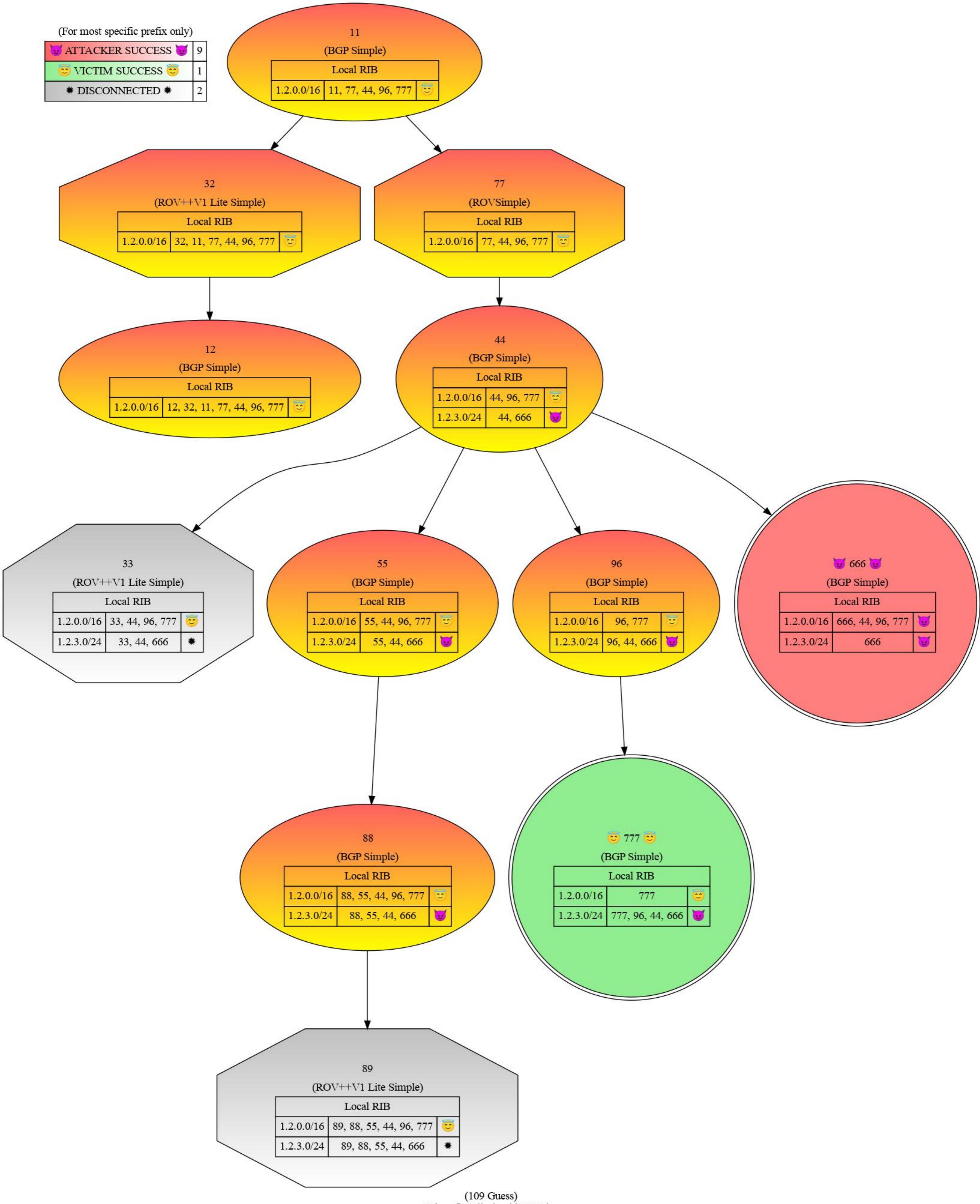
(For most specific prefix only)

	ATTACKER SUCCESS	9
	VICTIM SUCCESS	1
★	DISCONNECTED ★	2



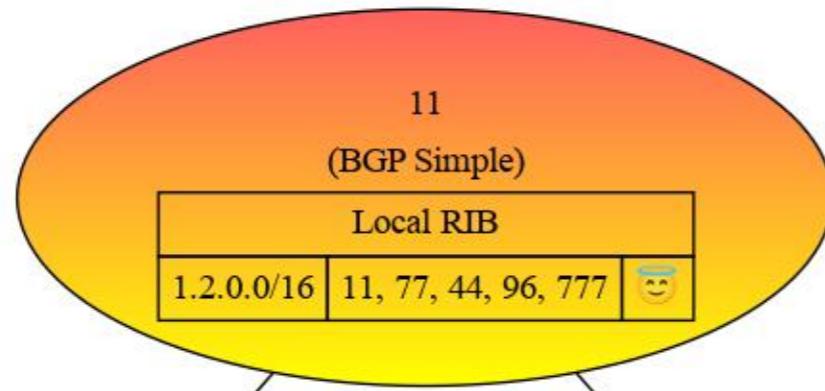
(For most specific prefix only)

	ATTACKER SUCCESS	9
	VICTIM SUCCESS	1
★ DISCONNECTED ★		2



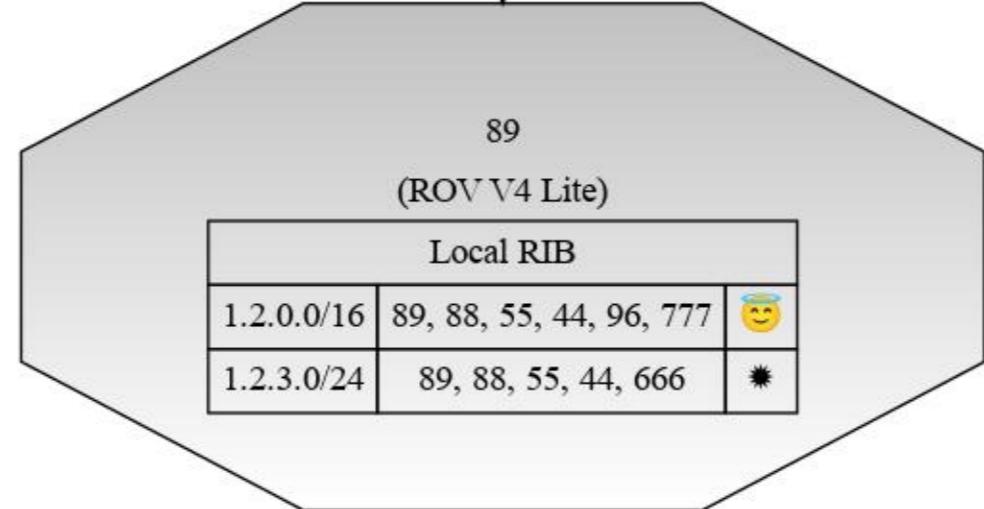
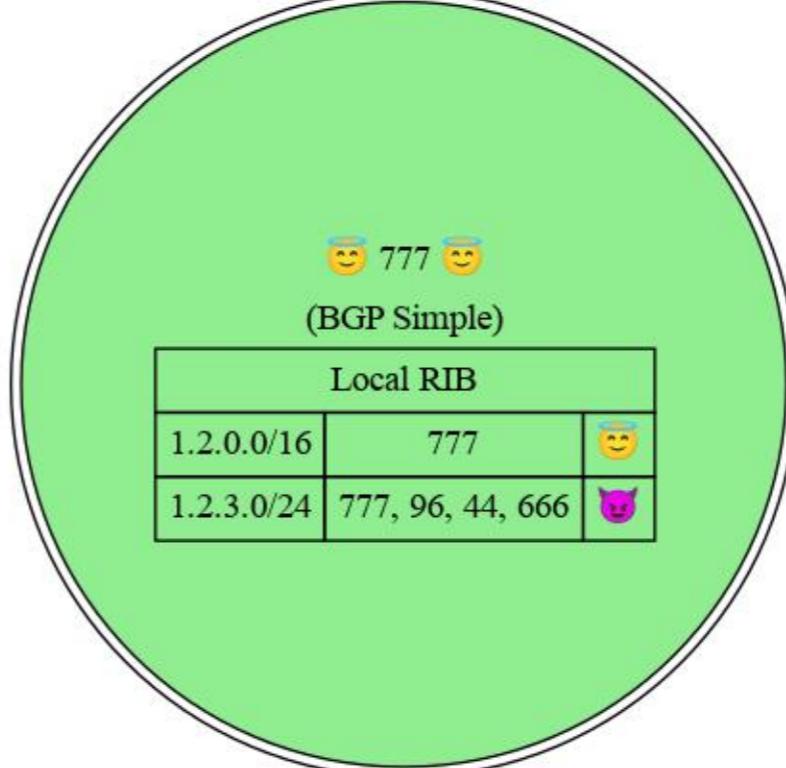
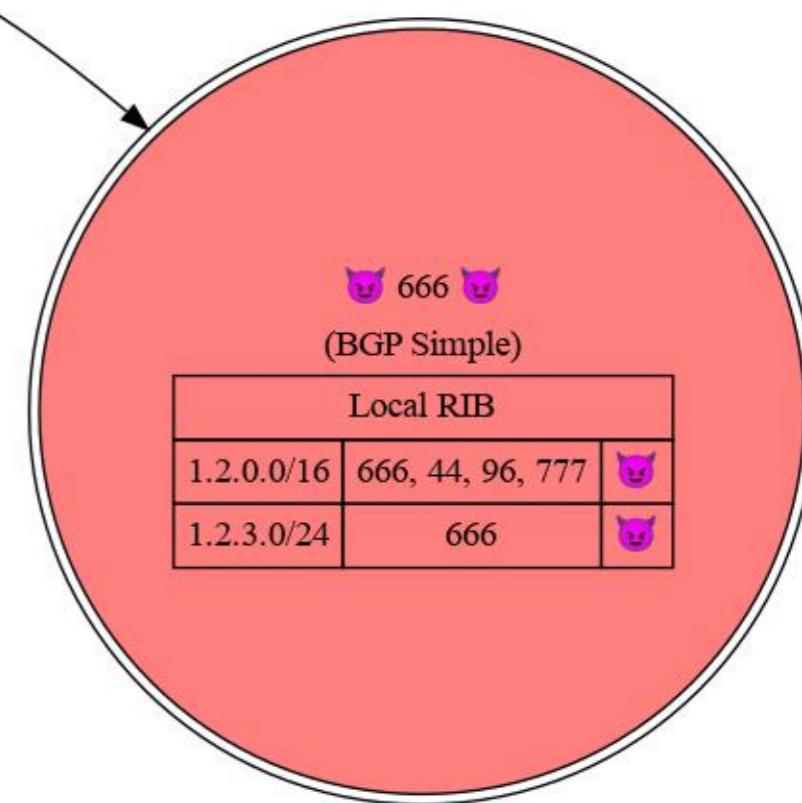
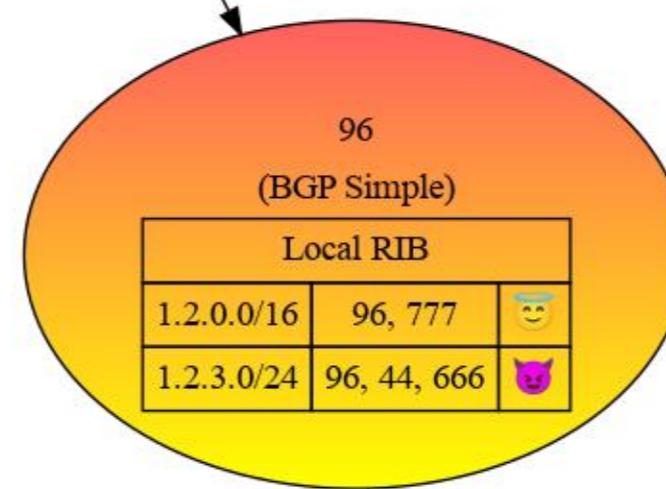
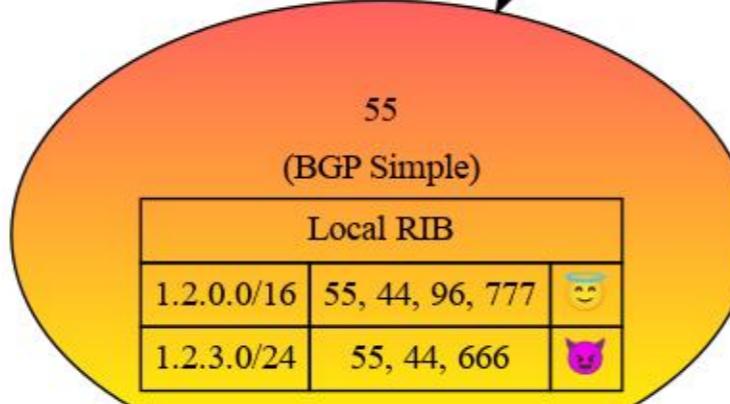
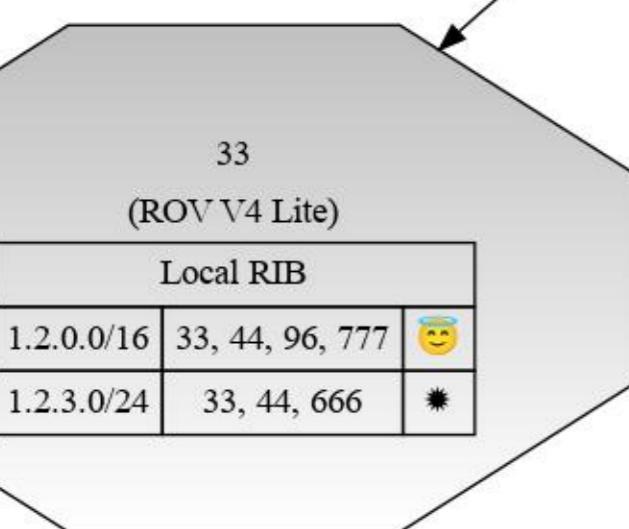
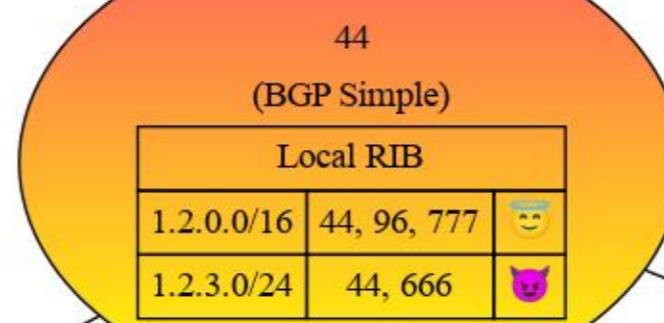
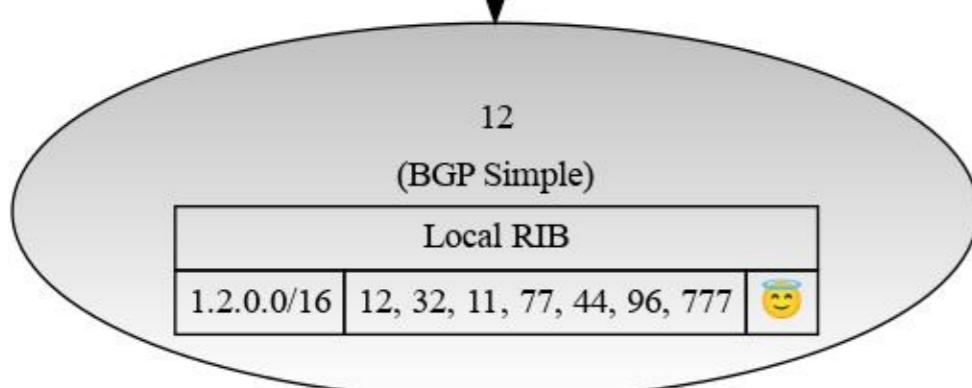
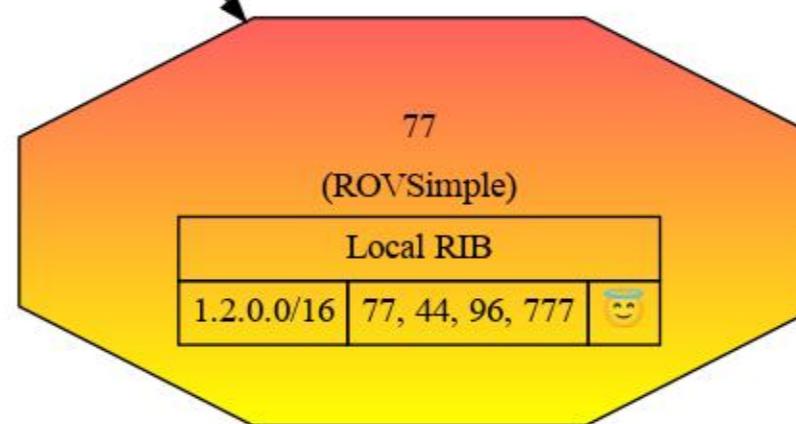
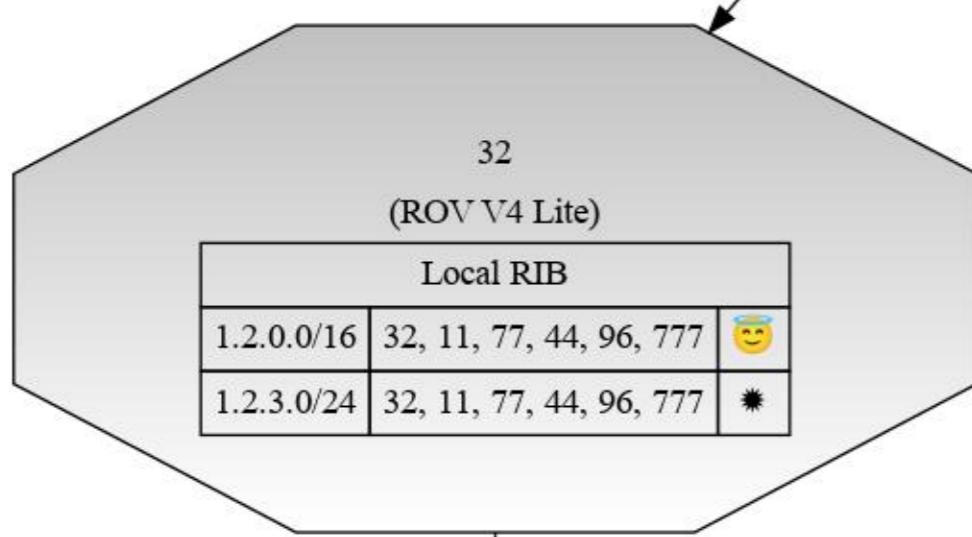
(For most specific prefix only)

	ATTACKER SUCCESS	7
	VICTIM SUCCESS	1
* DISCONNECTED *		4



Avoid List

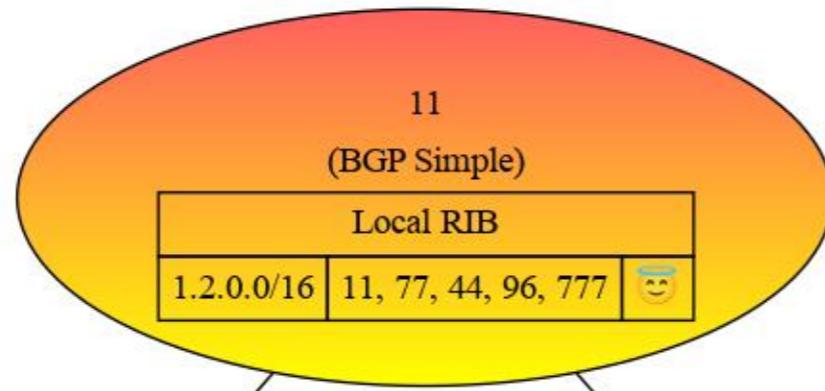
1.2.3.0/24	[44, 55, 88, 666]
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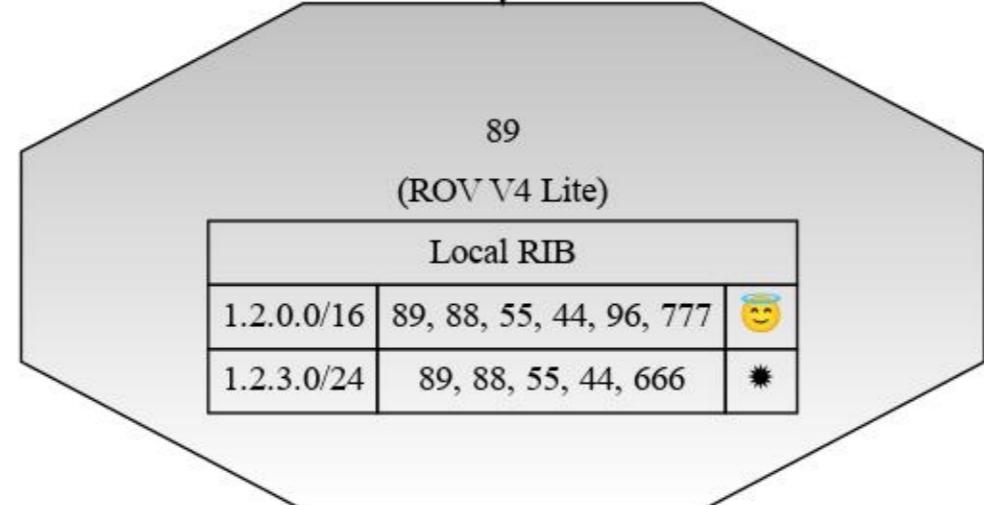
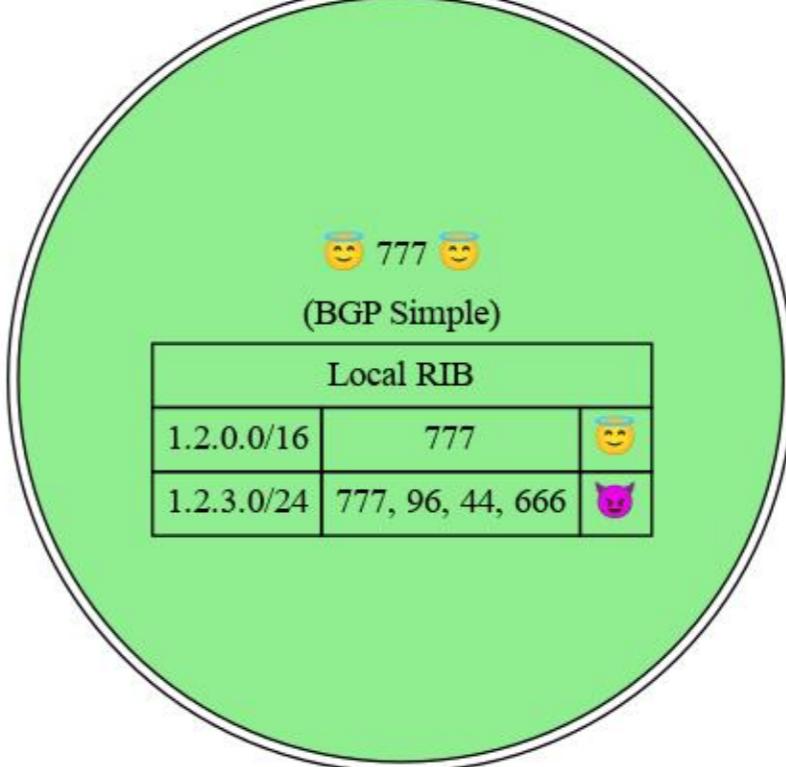
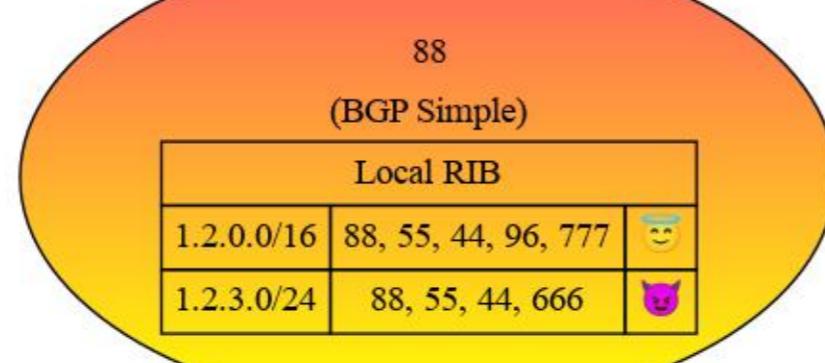
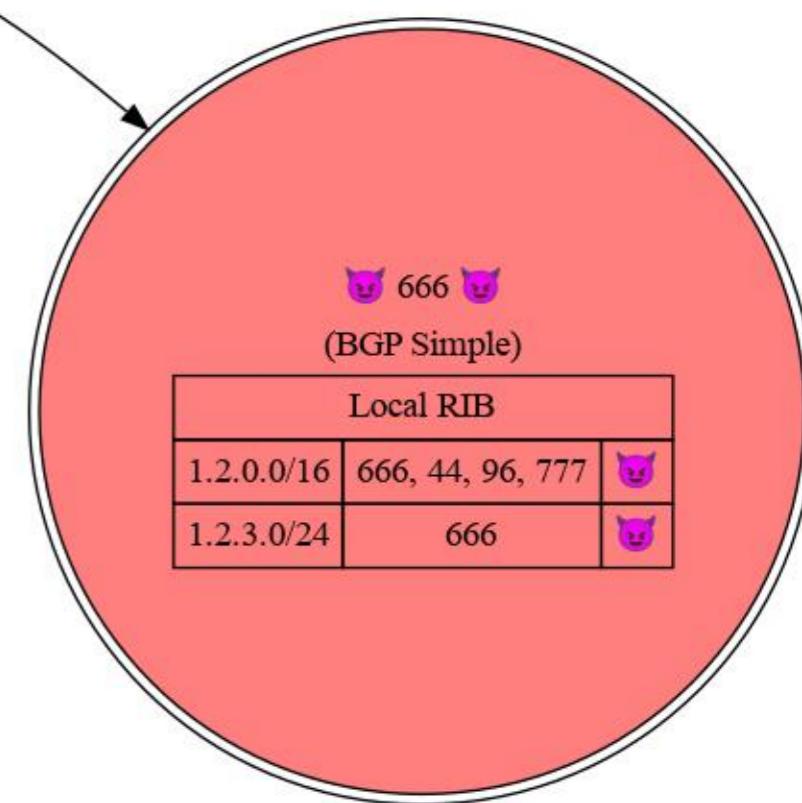
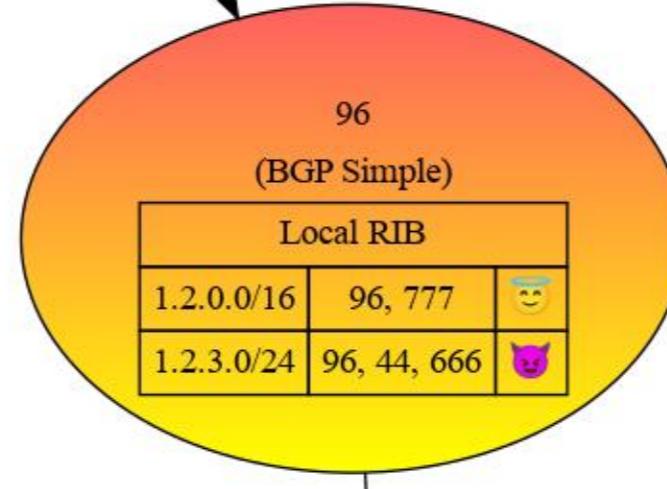
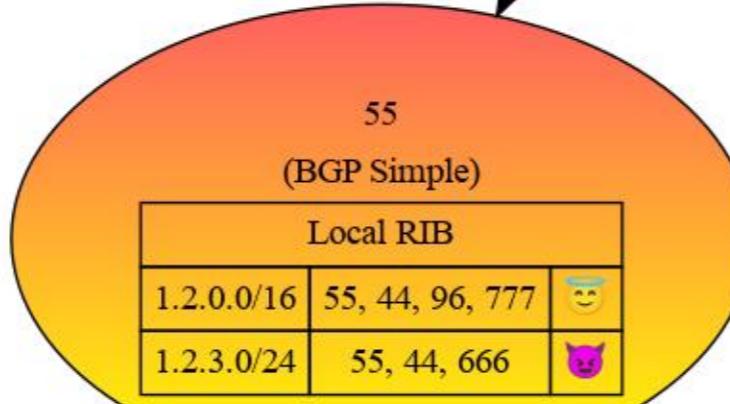
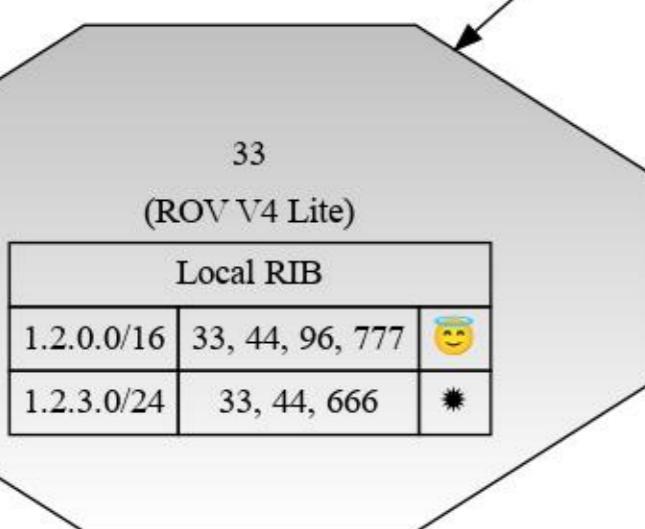
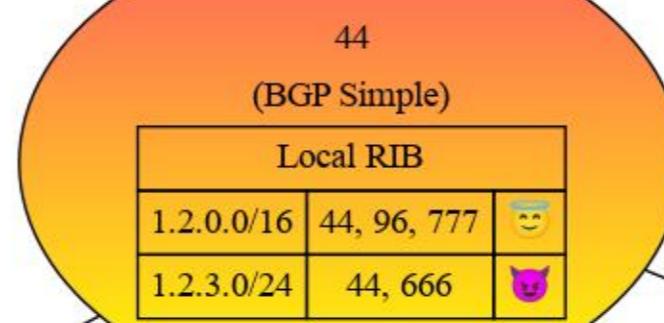
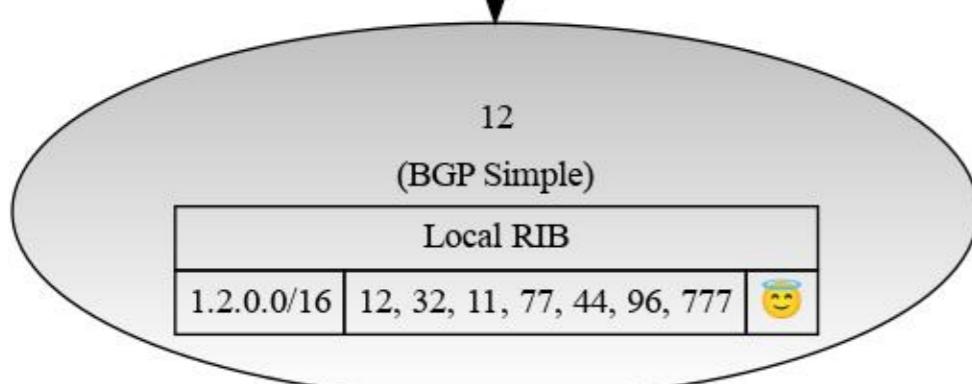
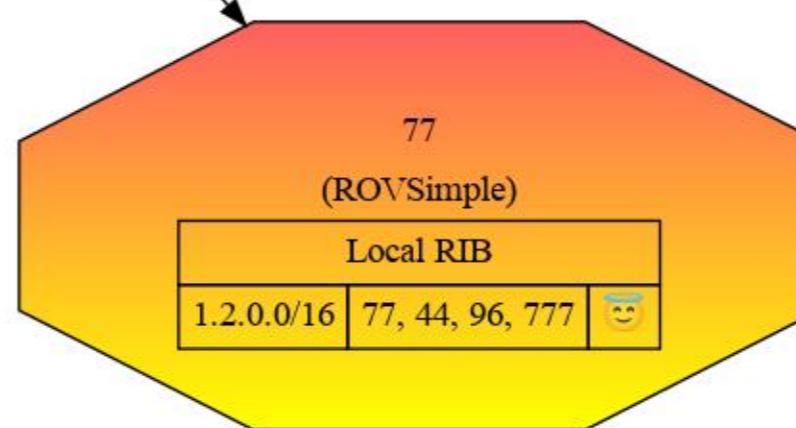
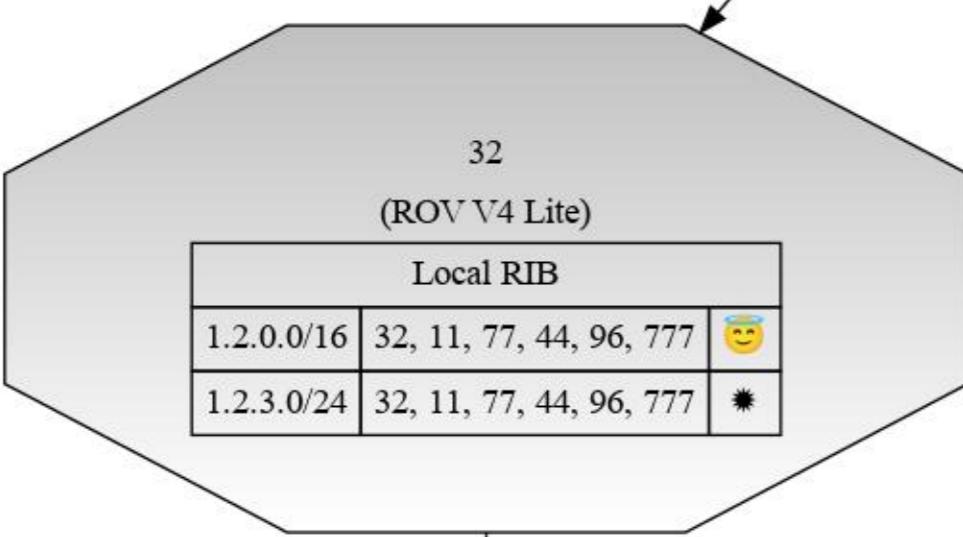
(110 Ground Truth)  
Subprefix Hijack with V4 Lite.  
Traceback for 1.2.3.0/24

(For most specific prefix only)

	ATTACKER SUCCESS	7
	VICTIM SUCCESS	1
* DISCONNECTED *		4



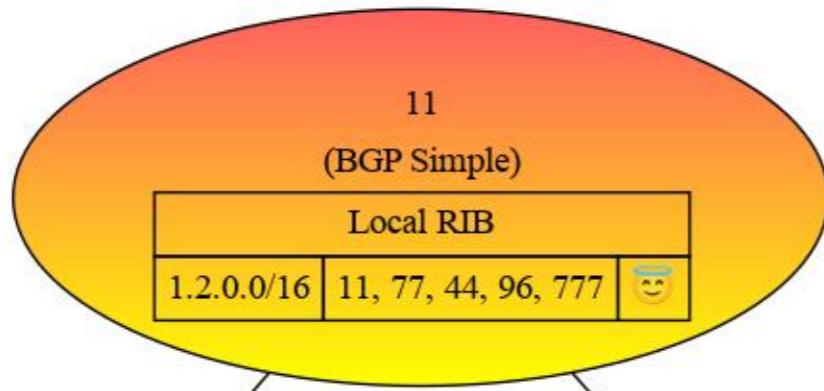
Avoid List  
1.2.3.0/24 [44, 55, 88, 666]



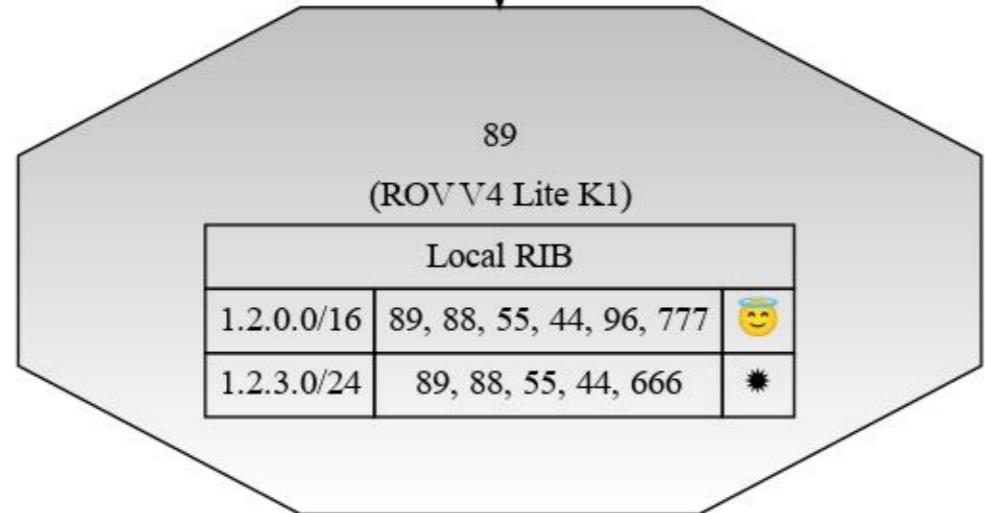
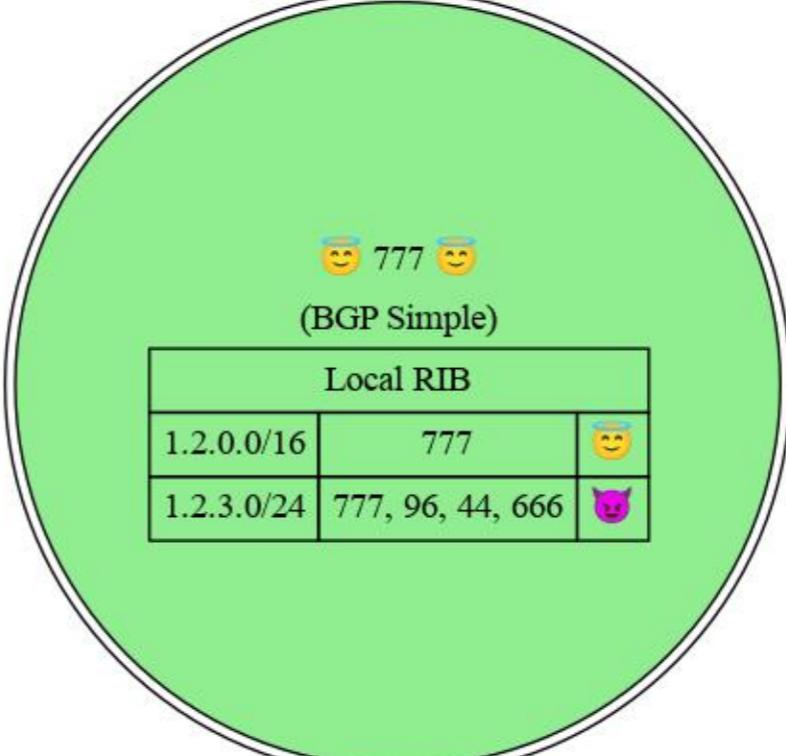
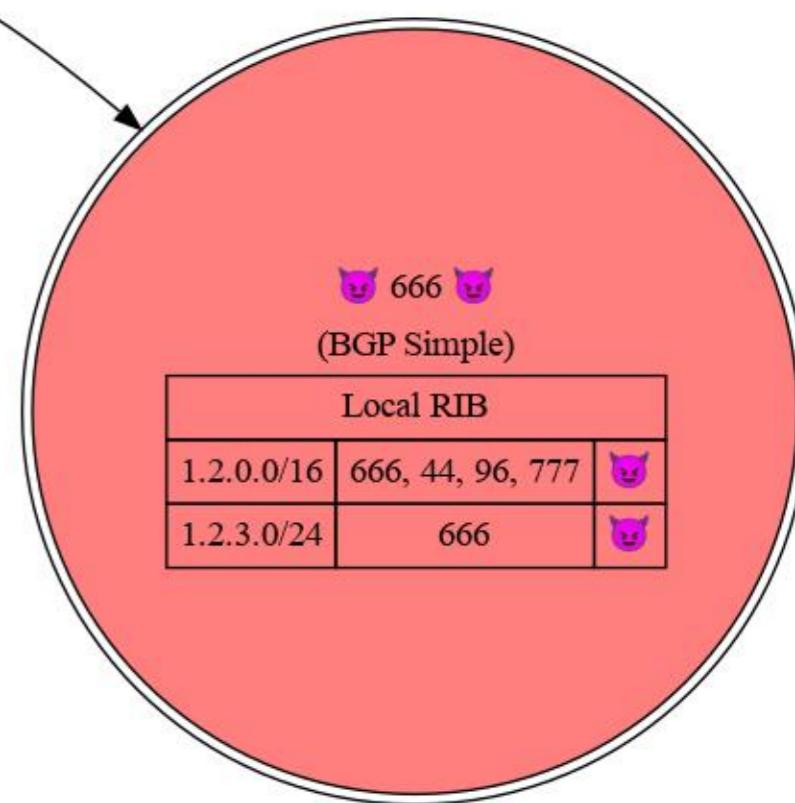
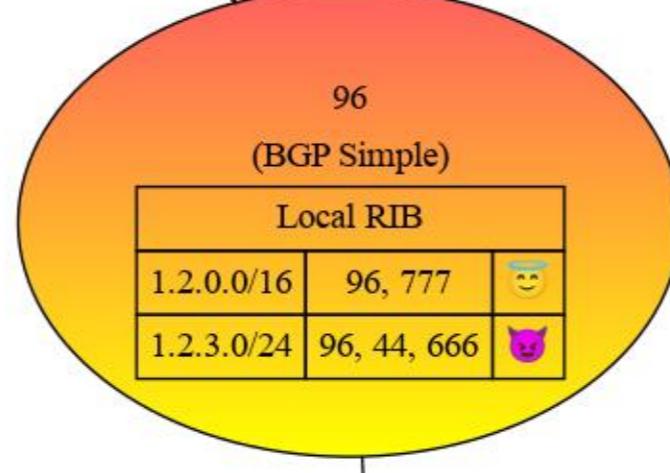
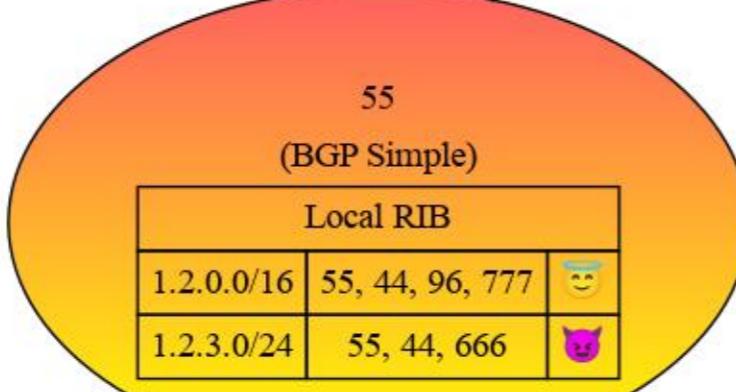
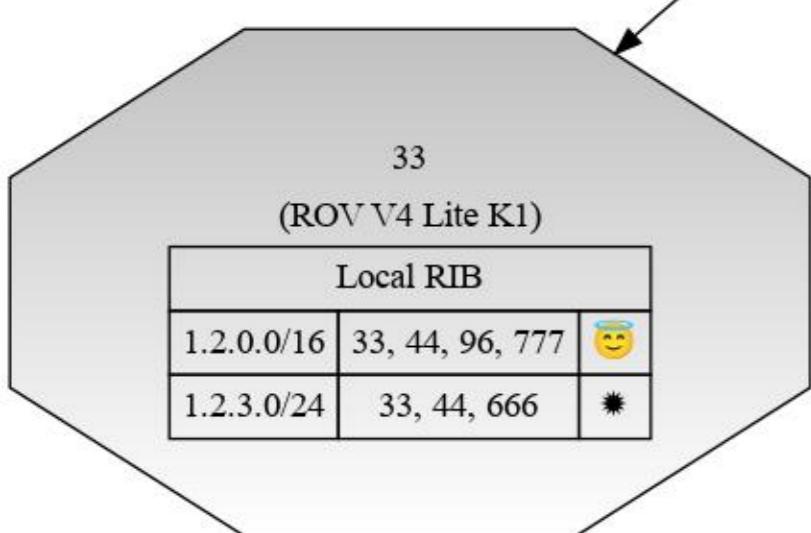
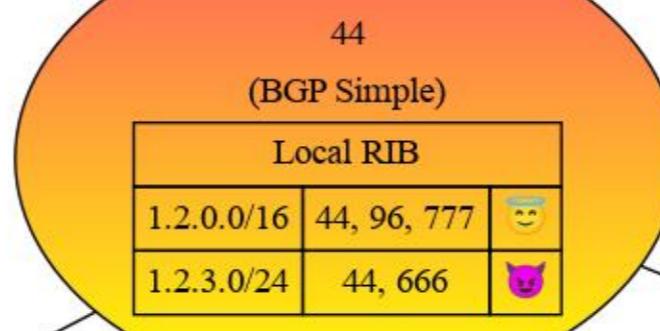
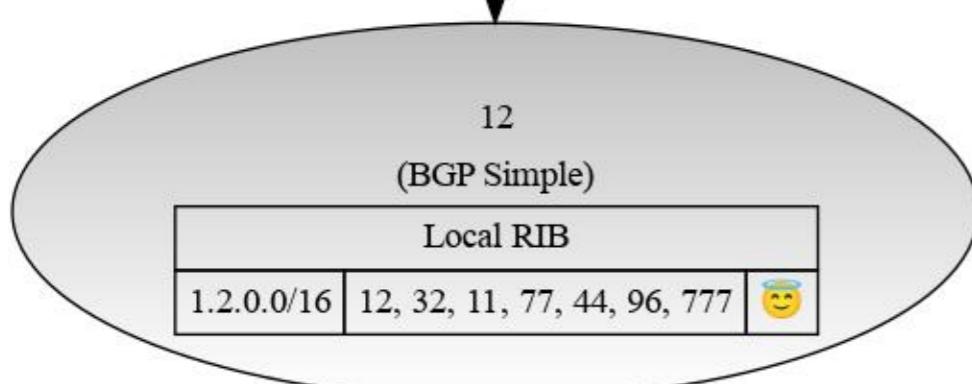
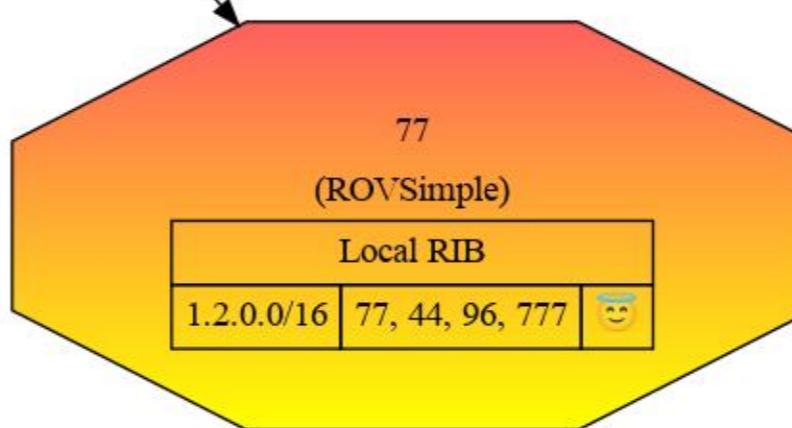
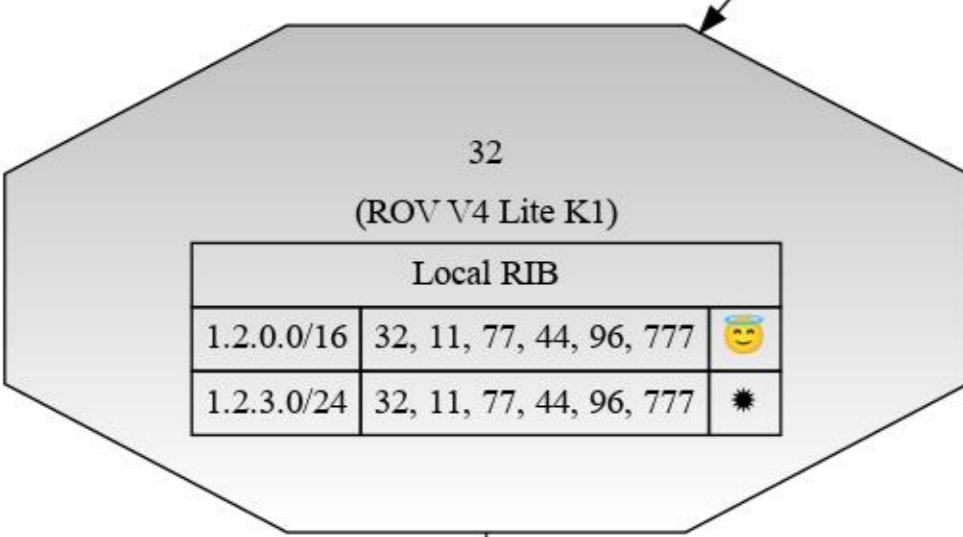
(110 Guess)  
Subprefix Hijack with V4 Lite.  
Traceback for 1.2.3.0/24

(For most specific prefix only)

ATTACKER SUCCESS	7
VICTIM SUCCESS	1
* DISCONNECTED *	4



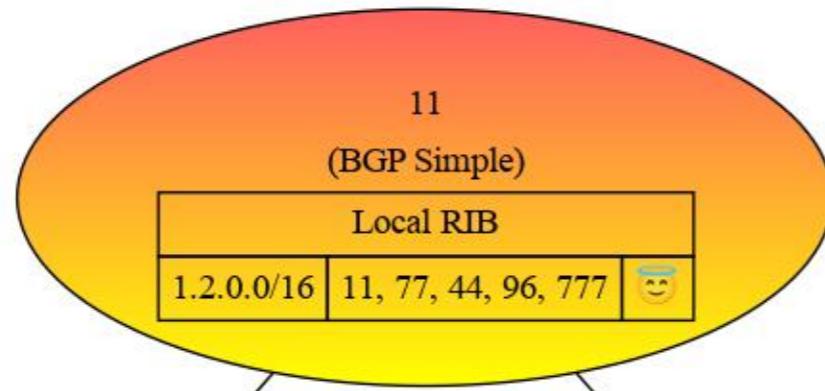
Avoid List  
1.2.3.0/24 [44]



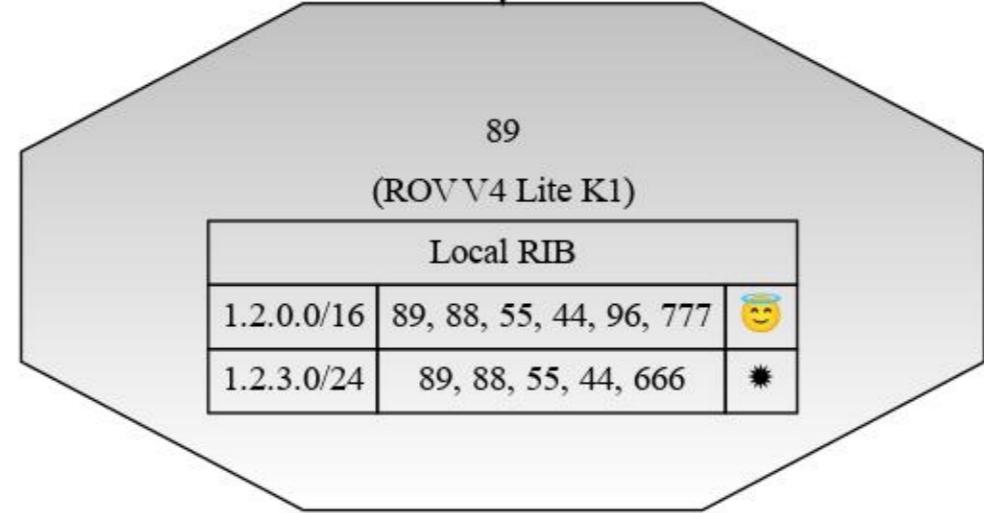
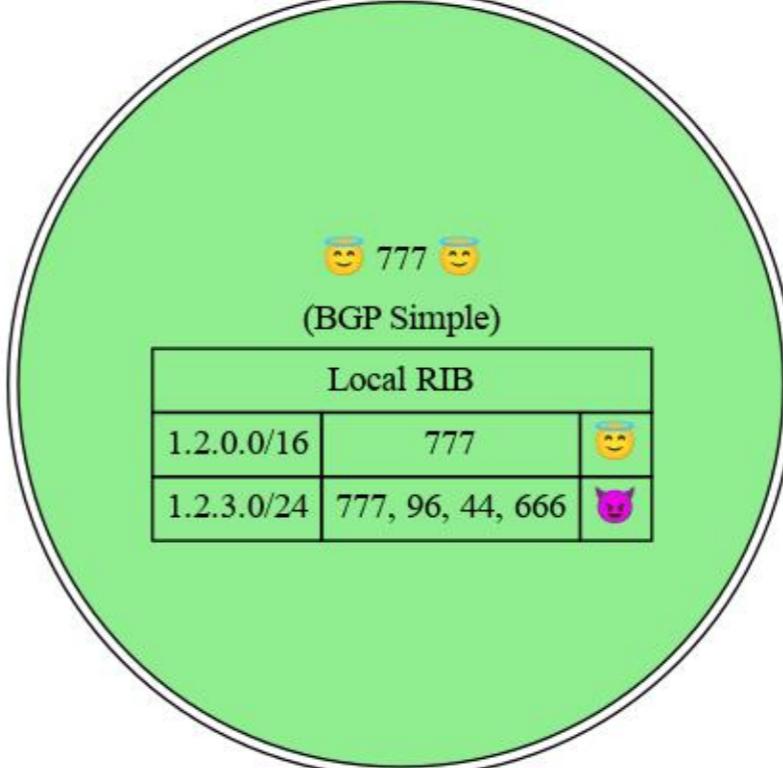
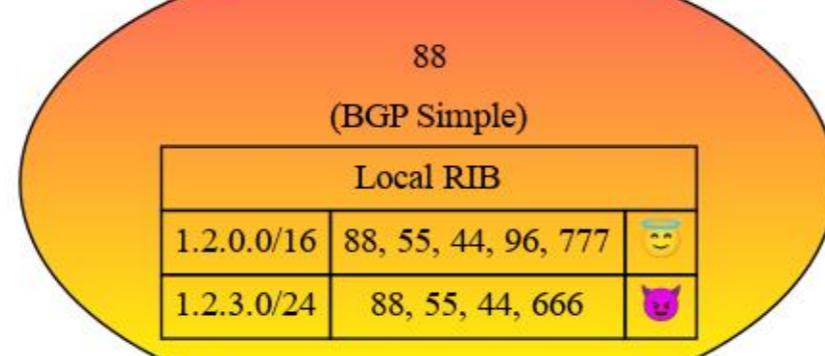
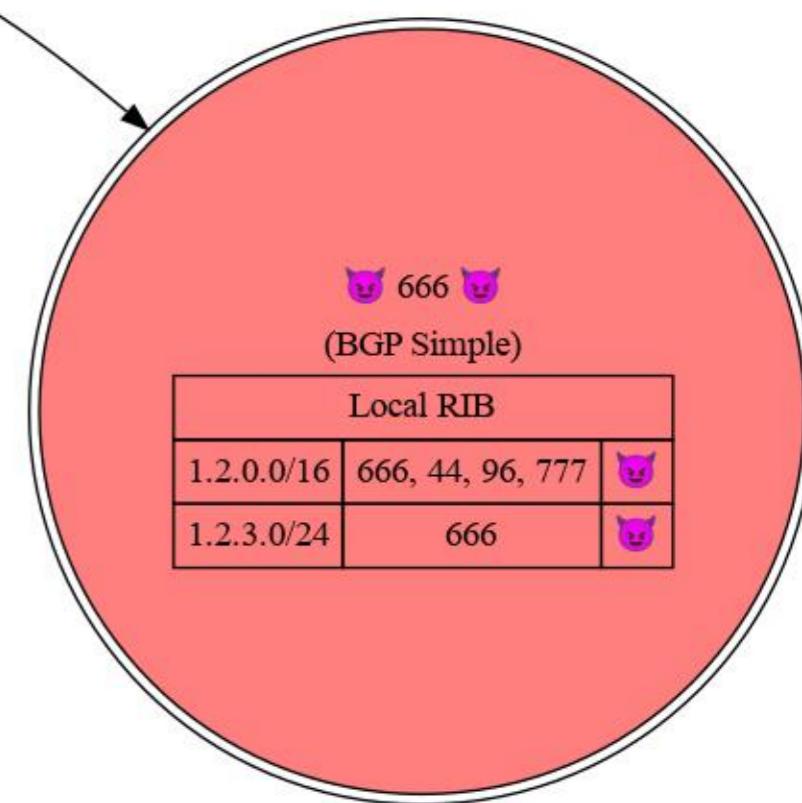
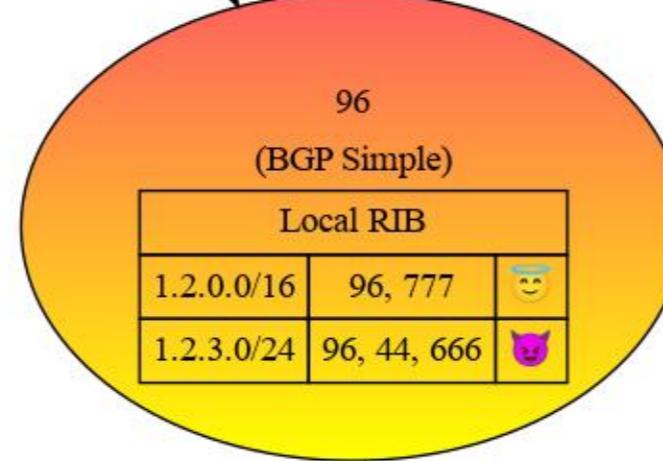
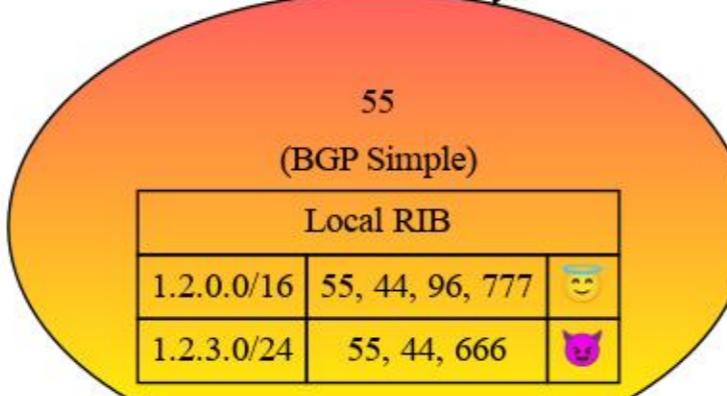
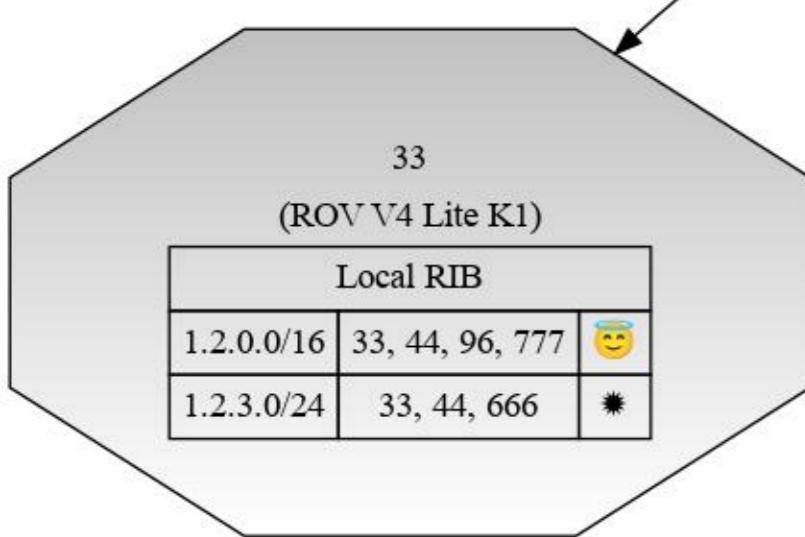
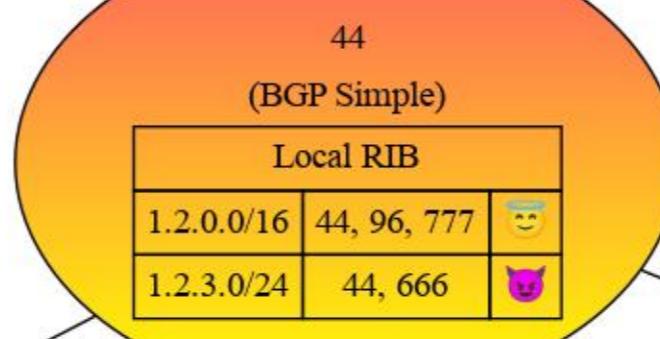
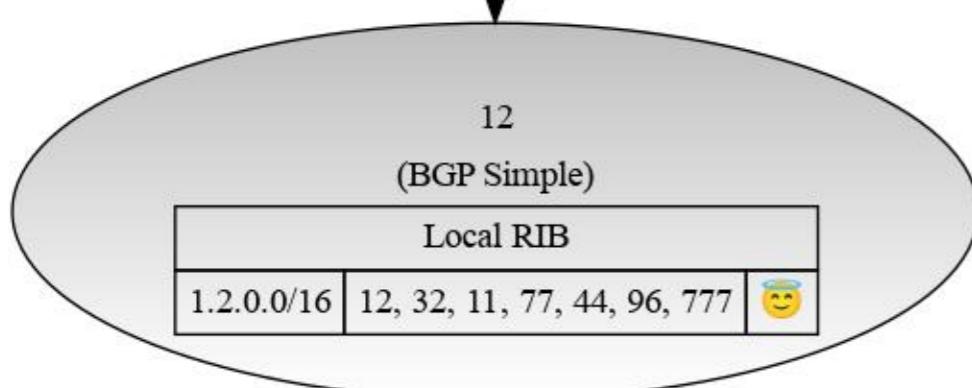
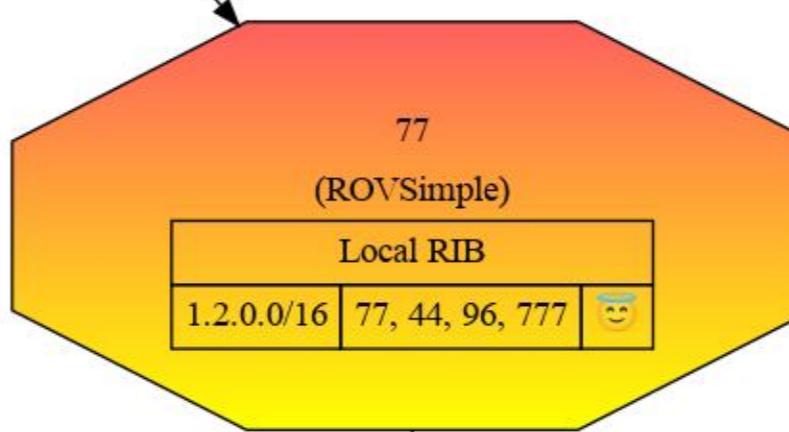
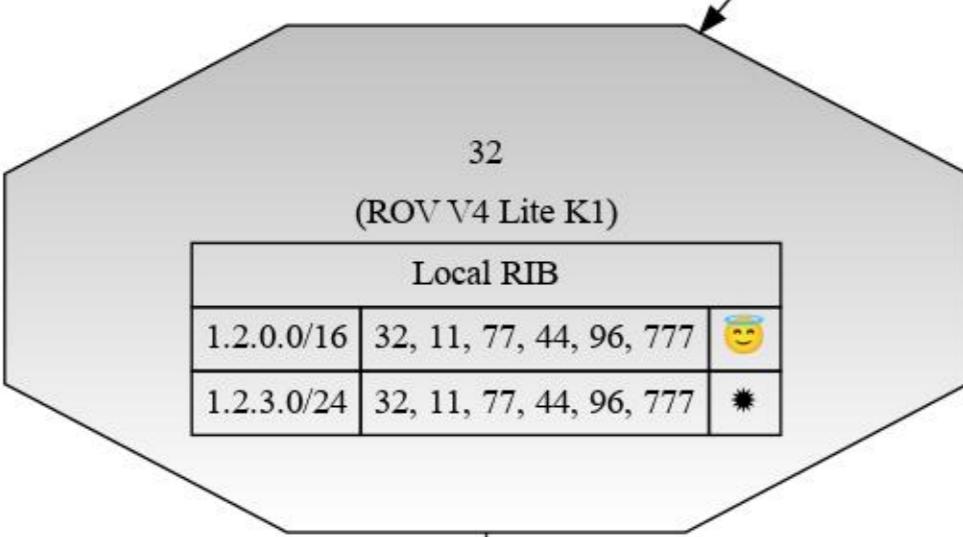
(111 Ground Truth)  
Subprefix Hijack with V4 Lite k=1.  
Traceback for 1.2.3.0/24

(For most specific prefix only)

ATTACKER SUCCESS	7
VICTIM SUCCESS	1
* DISCONNECTED *	4



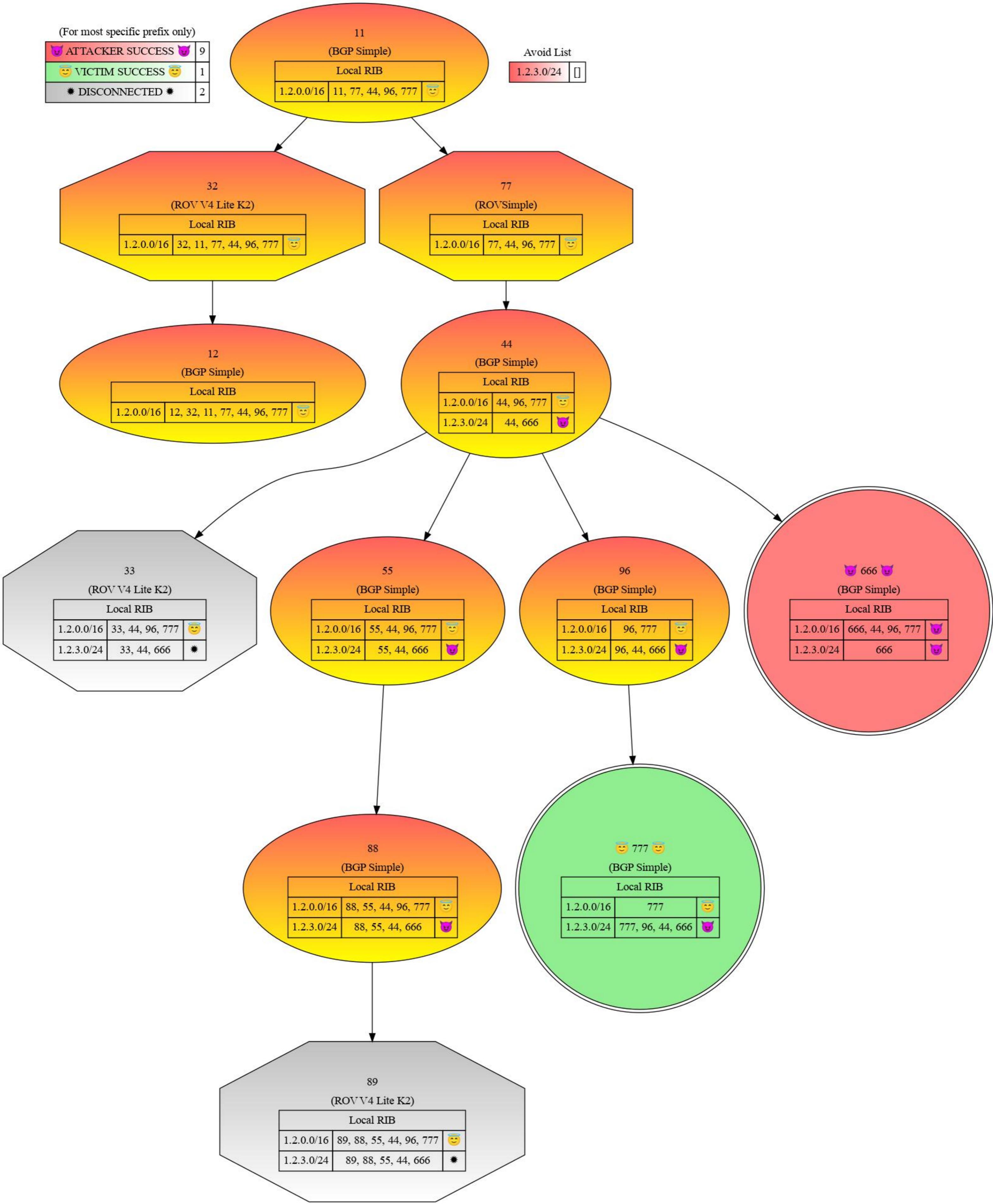
Avoid List  
1.2.3.0/24 [44]



(111 Guess)  
Subprefix Hijack with V4 Lite k=1.  
Traceback for 1.2.3.0/24

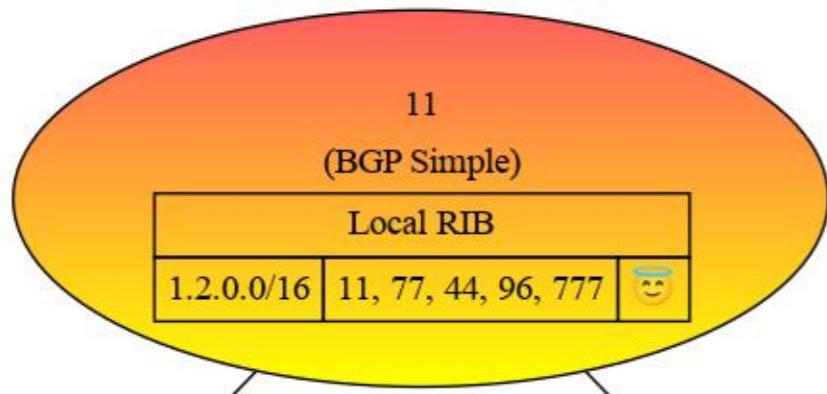
(For most specific prefix only)

	ATTACKER SUCCESS	9
	VICTIM SUCCESS	1
✳ DISCONNECTED ✳		2

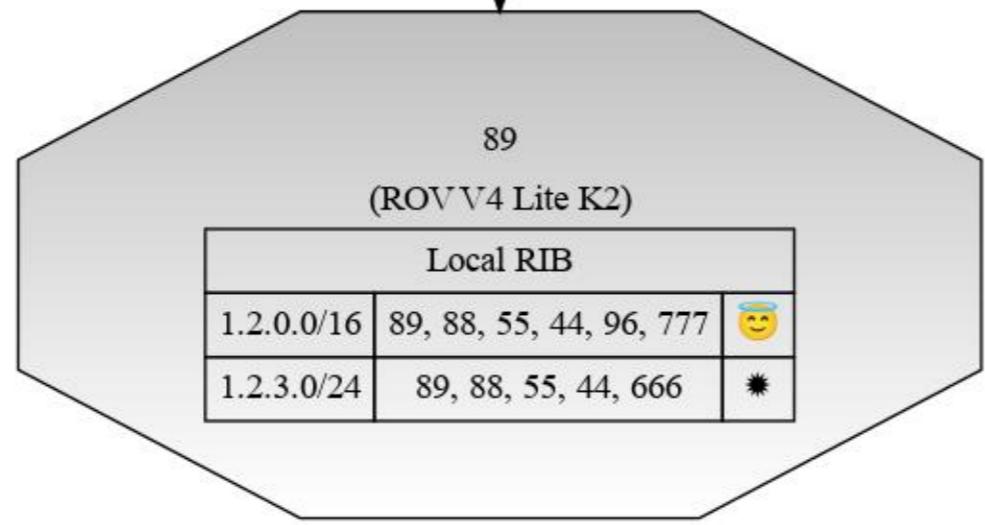
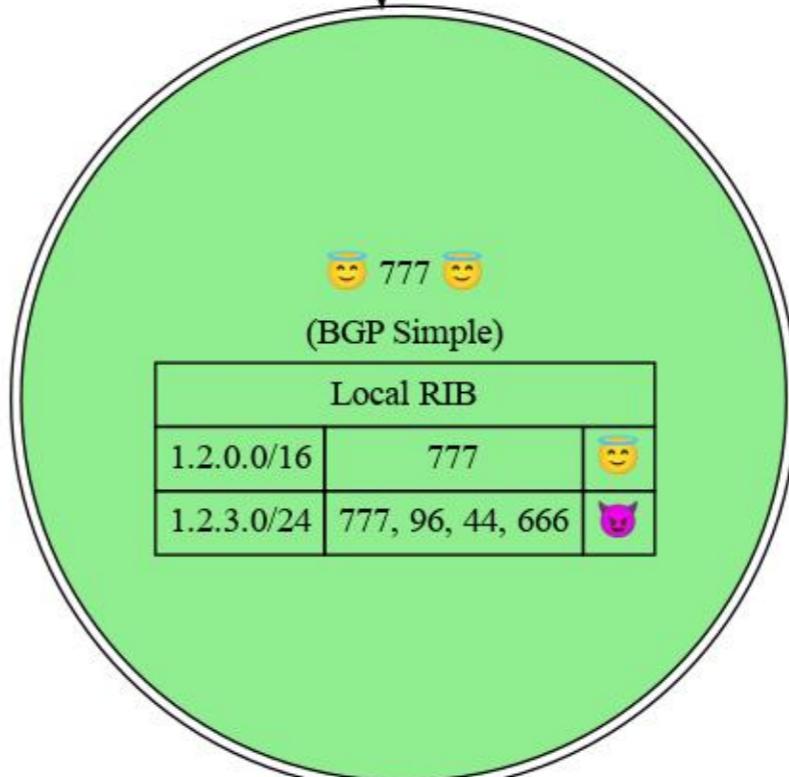
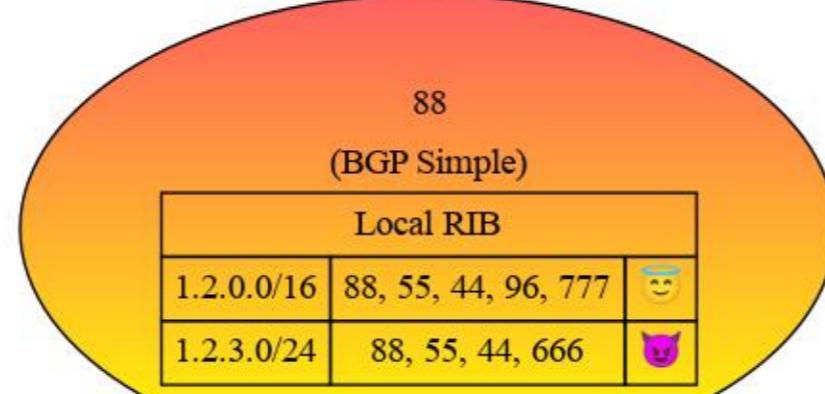
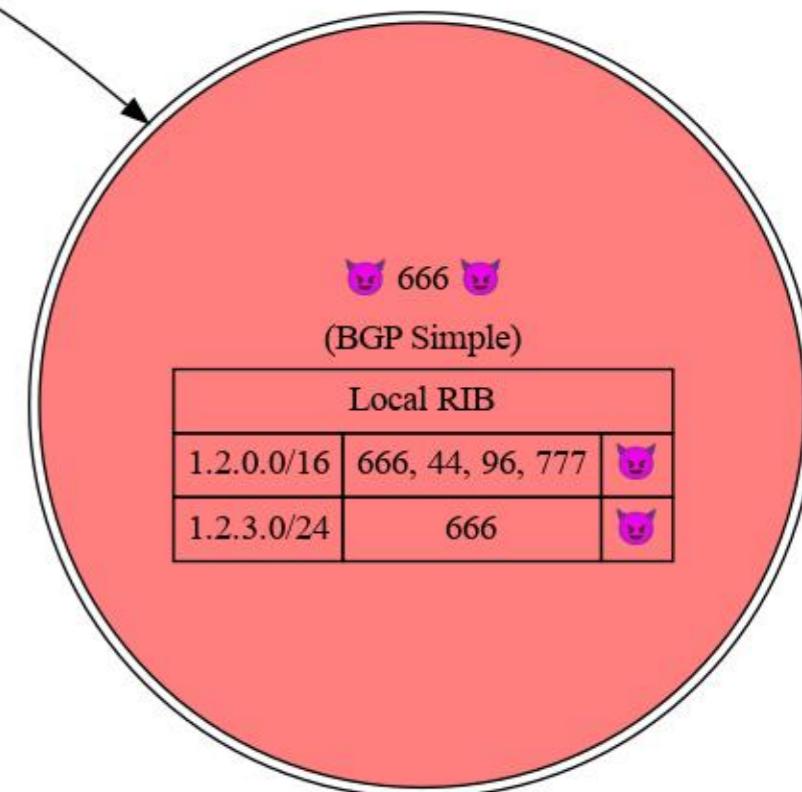
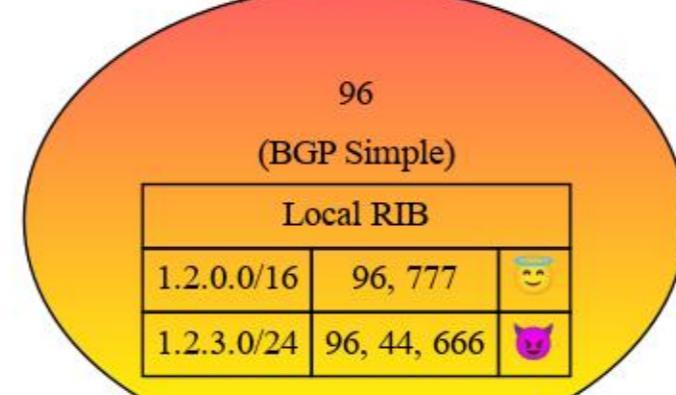
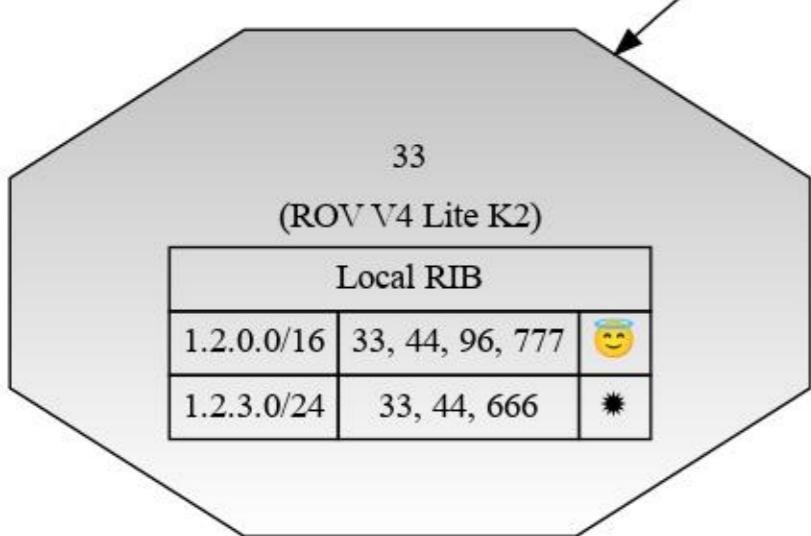
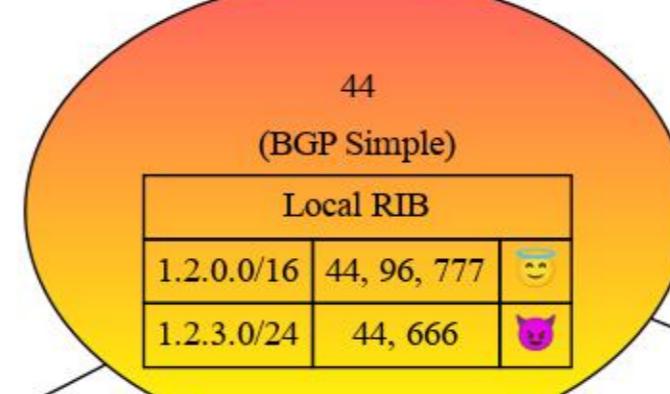
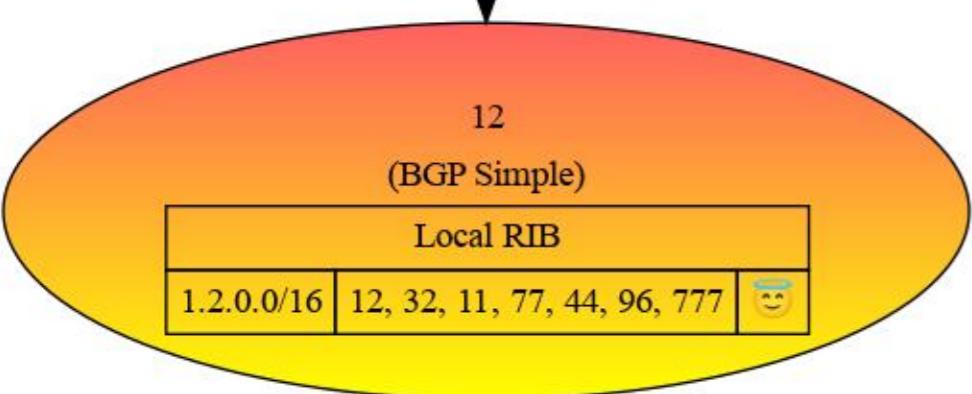
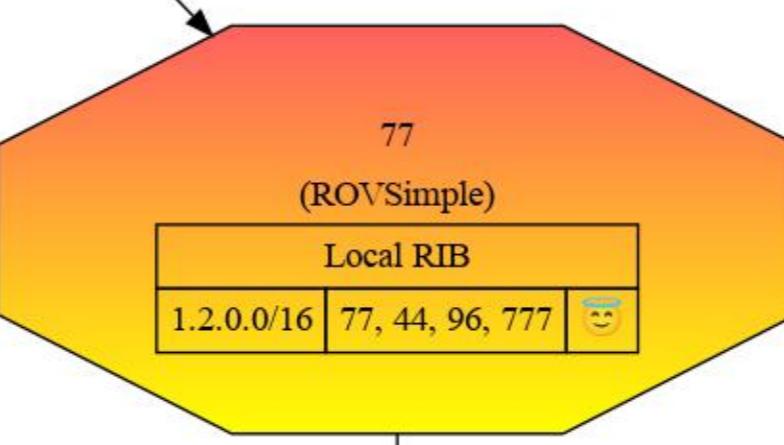
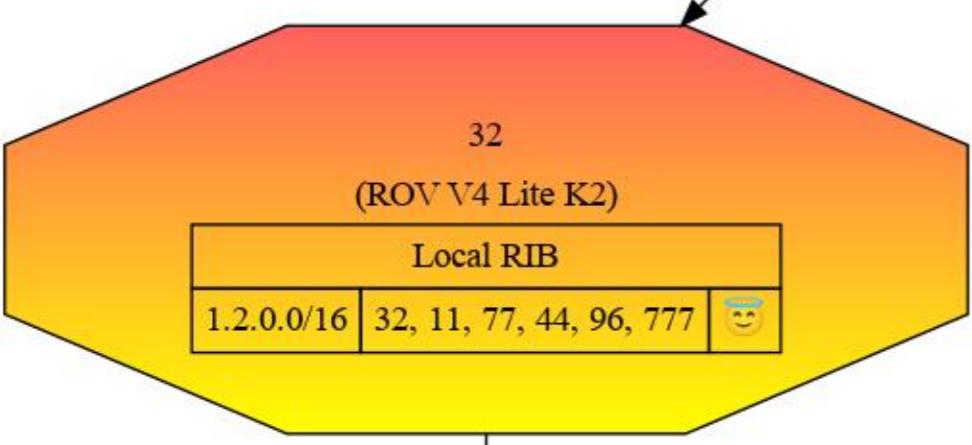


(For most specific prefix only)

	ATTACKER SUCCESS	9
	VICTIM SUCCESS	1
✳️	DISCONNECTED ✳️	2



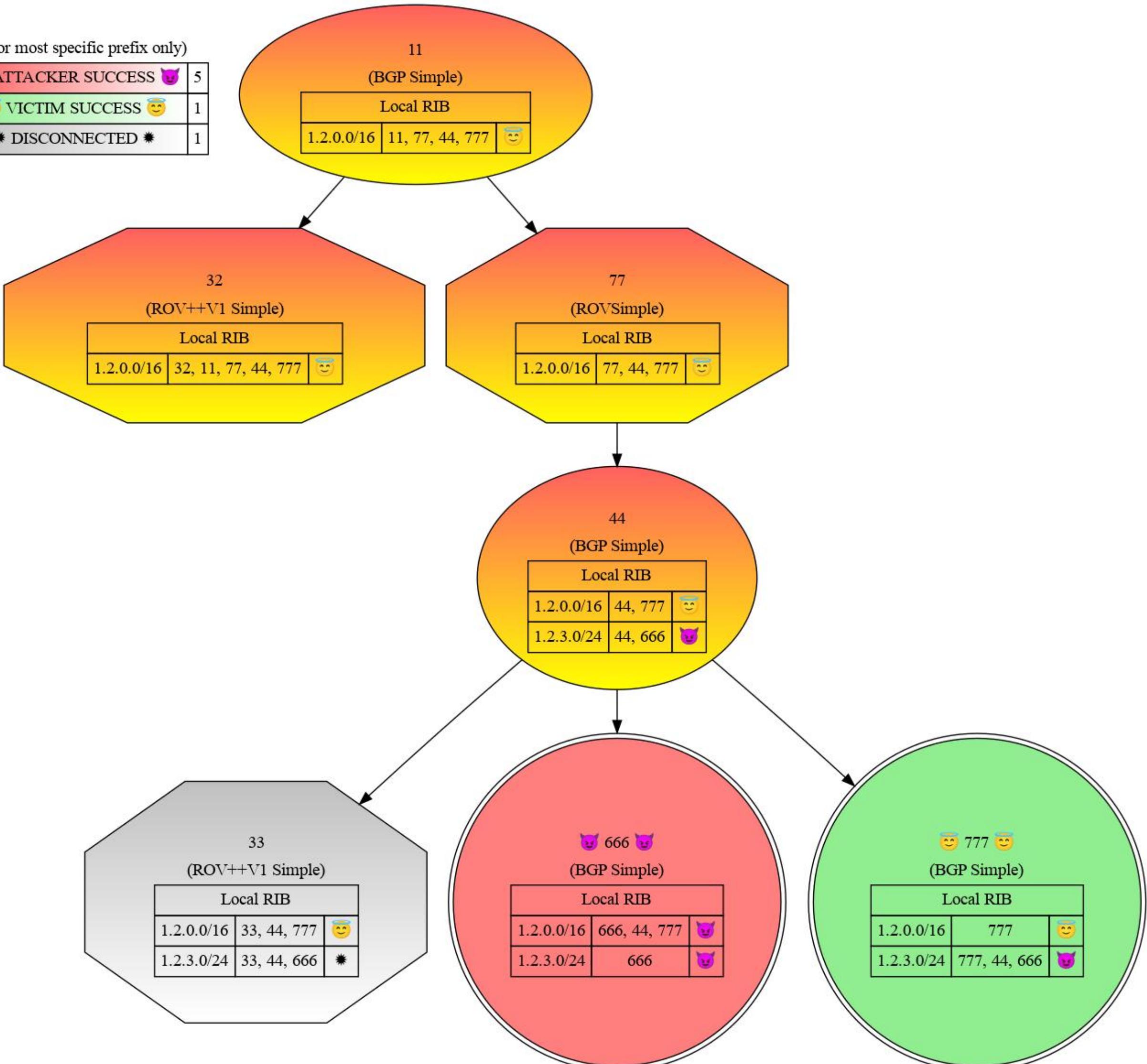
Avoid List  
1.2.3.0/24 []



(112 Guess)  
Subprefix Hijack with V4 Lite k=2.  
Traceback for 1.2.3.0/24

(For most specific prefix only)

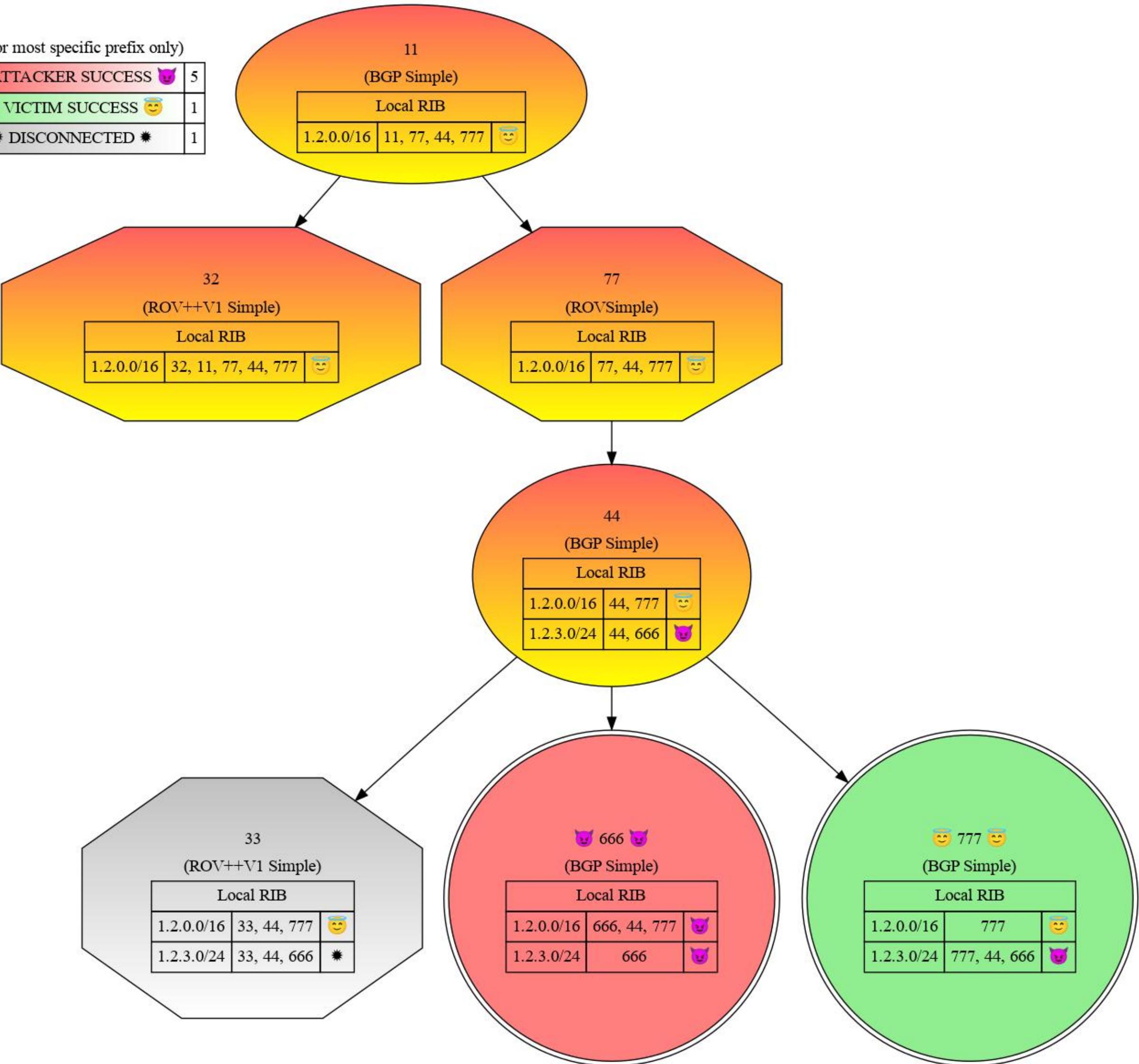
ATTACKER SUCCESS	5
VICTIM SUCCESS	1
DISCONNECTED	1



(113 Ground Truth)  
Subprefix Hijack with V1 Lite  
Traceback for 1.2.3.0/24

(For most specific prefix only)

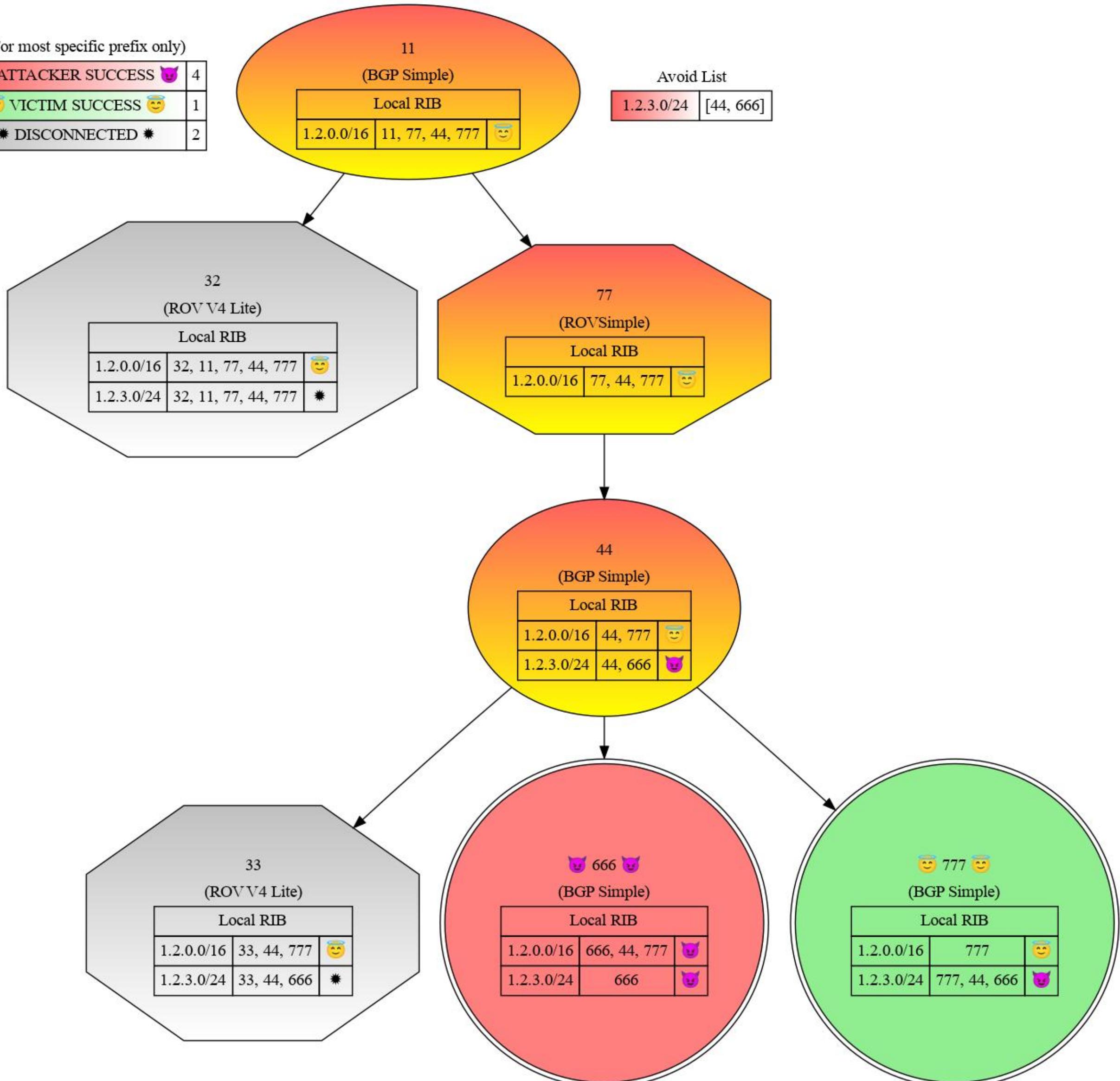
ATTACKER SUCCESS	5
VICTIM SUCCESS	1
DISCONNECTED	1



(113 Guess)  
Subprefix Hijack with V1 Lite  
Traceback for 1.2.3.0/24

(For most specific prefix only)

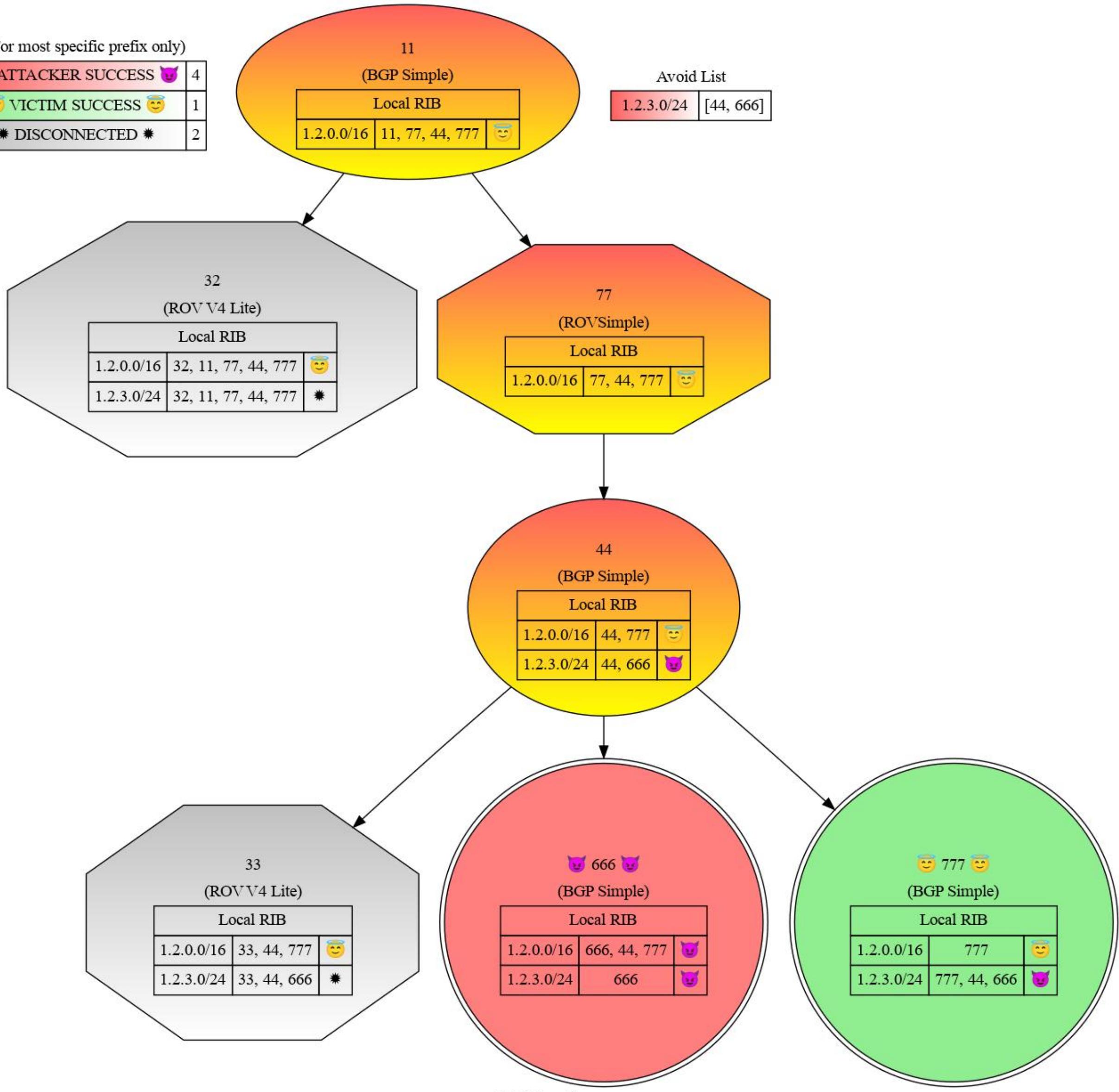
ATTACKER SUCCESS	4
VICTIM SUCCESS	1
DISCONNECTED	2



(114 Ground Truth)  
Subprefix Hijack with V4 Lite  
Traceback for 1.2.3.0/24

(For most specific prefix only)

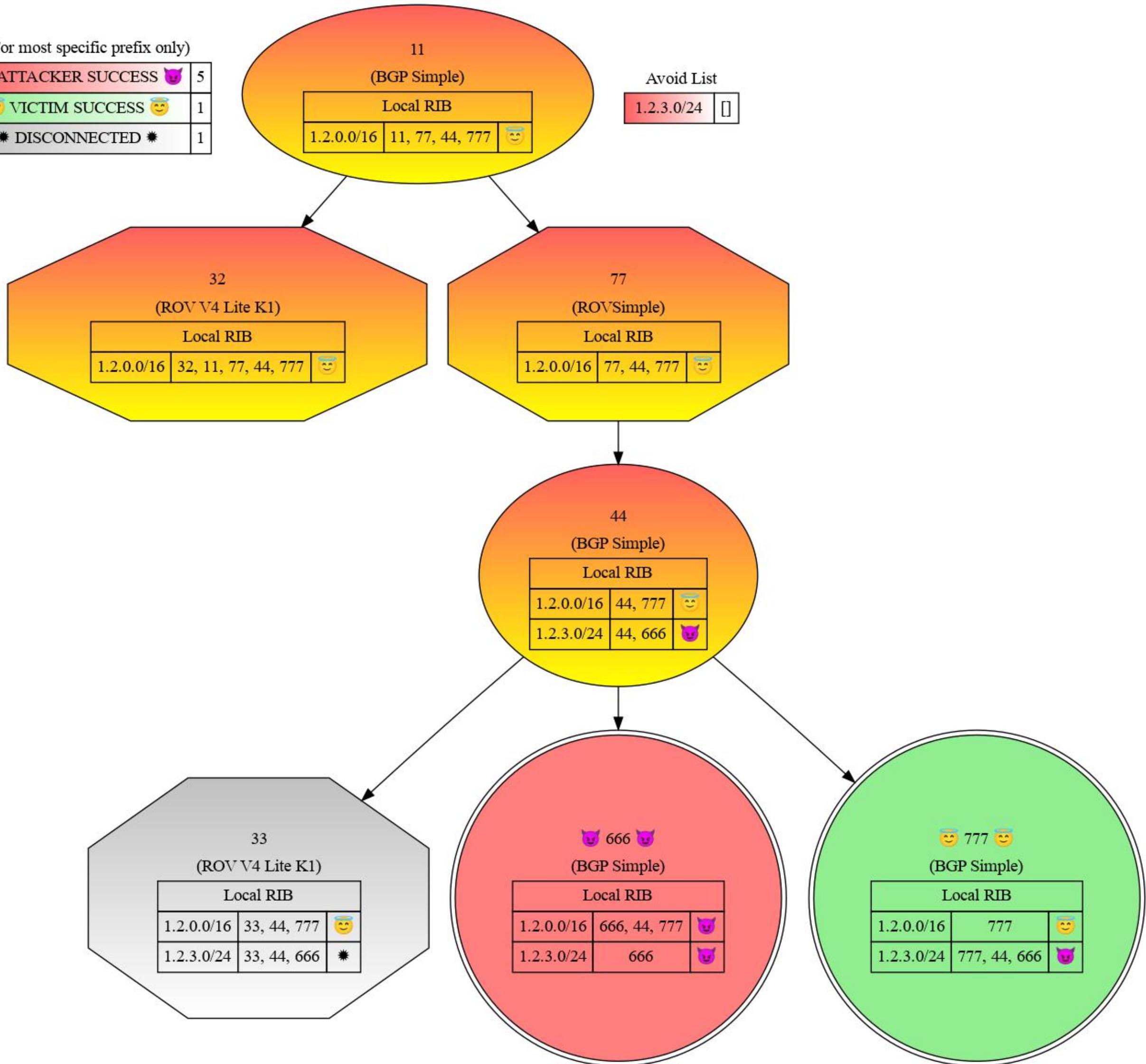
ATTACKER SUCCESS	4
VICTIM SUCCESS	1
DISCONNECTED	2



(114 Guess)  
Subprefix Hijack with V4 Lite  
Traceback for 1.2.3.0/24

(For most specific prefix only)

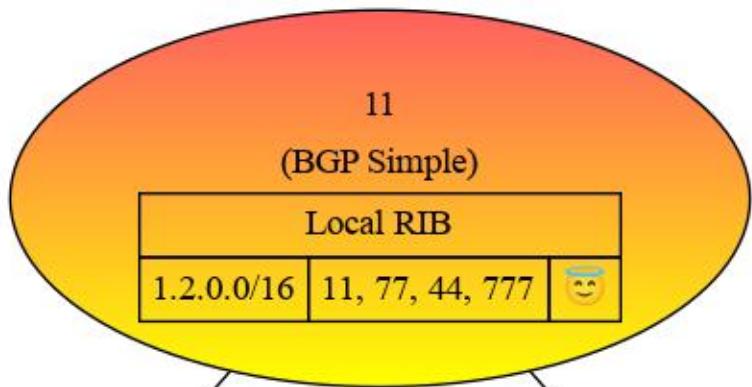
ATTACKER SUCCESS	5
VICTIM SUCCESS	1
DISCONNECTED	1



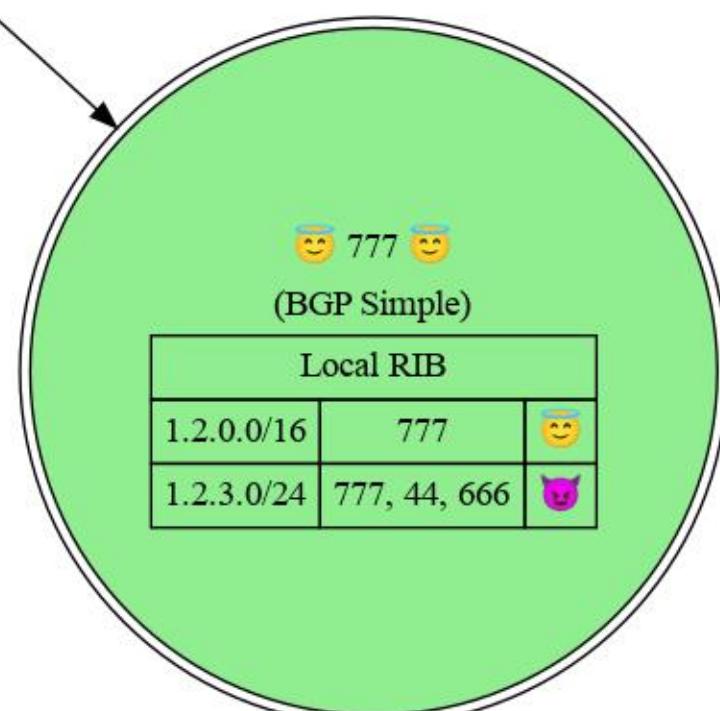
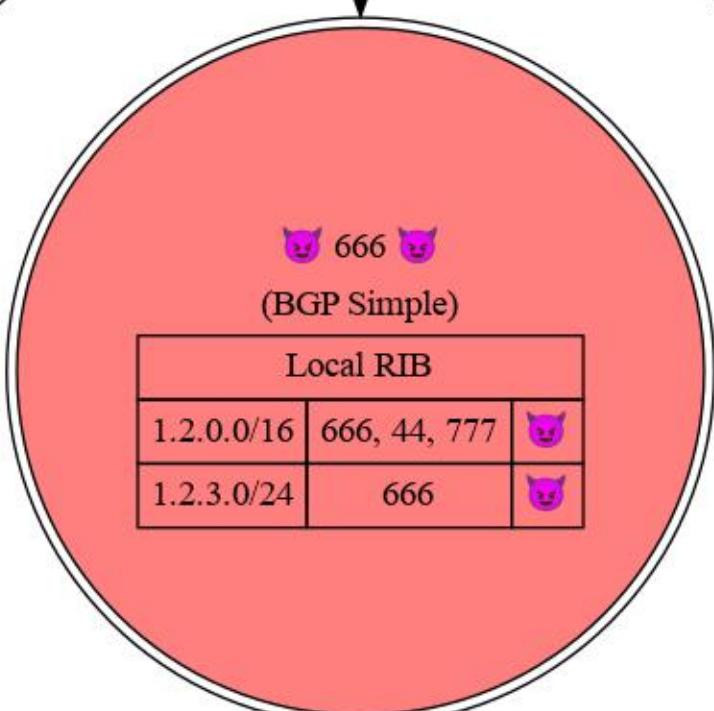
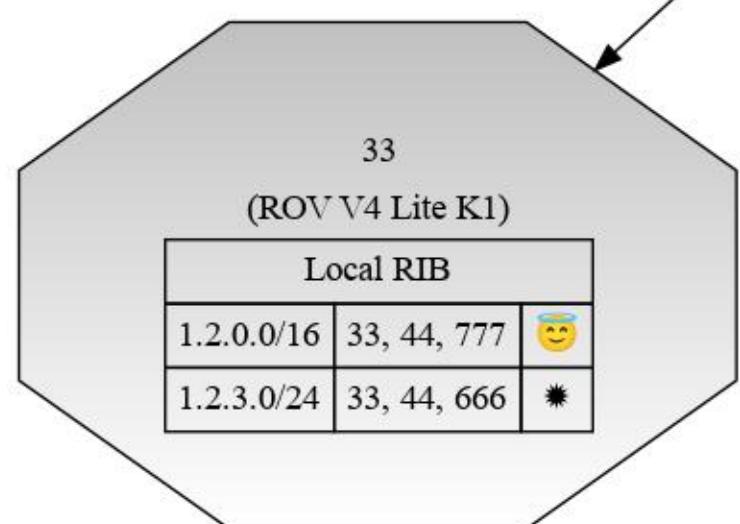
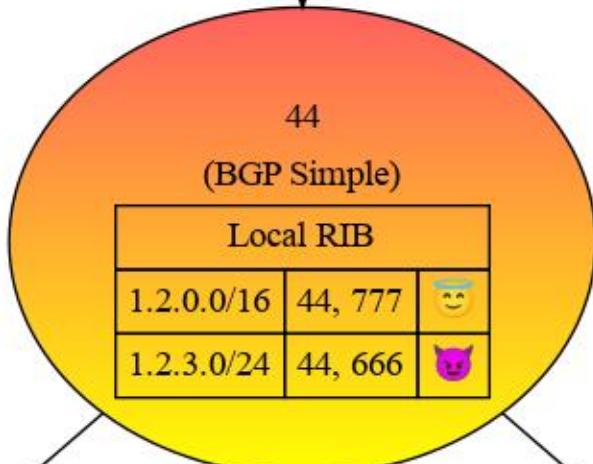
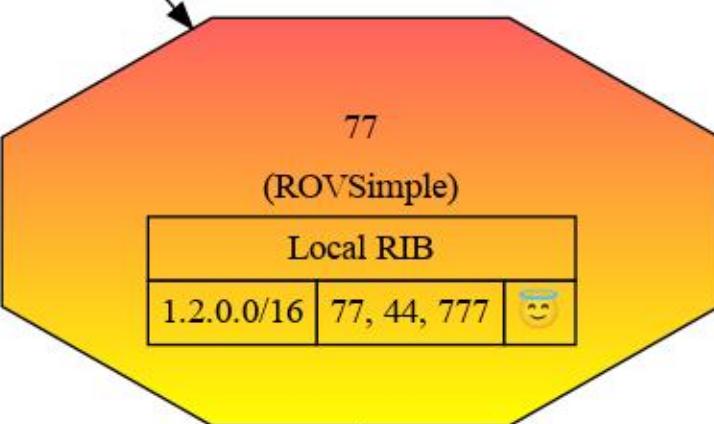
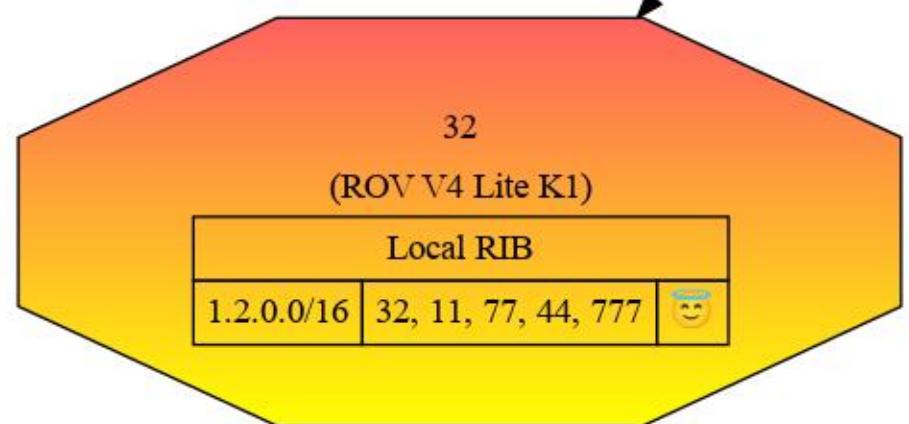
(115 Ground Truth)  
Subprefix Hijack with V4 Lite k=1  
Traceback for 1.2.3.0/24

(For most specific prefix only)

ATTACKER SUCCESS	5
VICTIM SUCCESS	1
DISCONNECTED	1



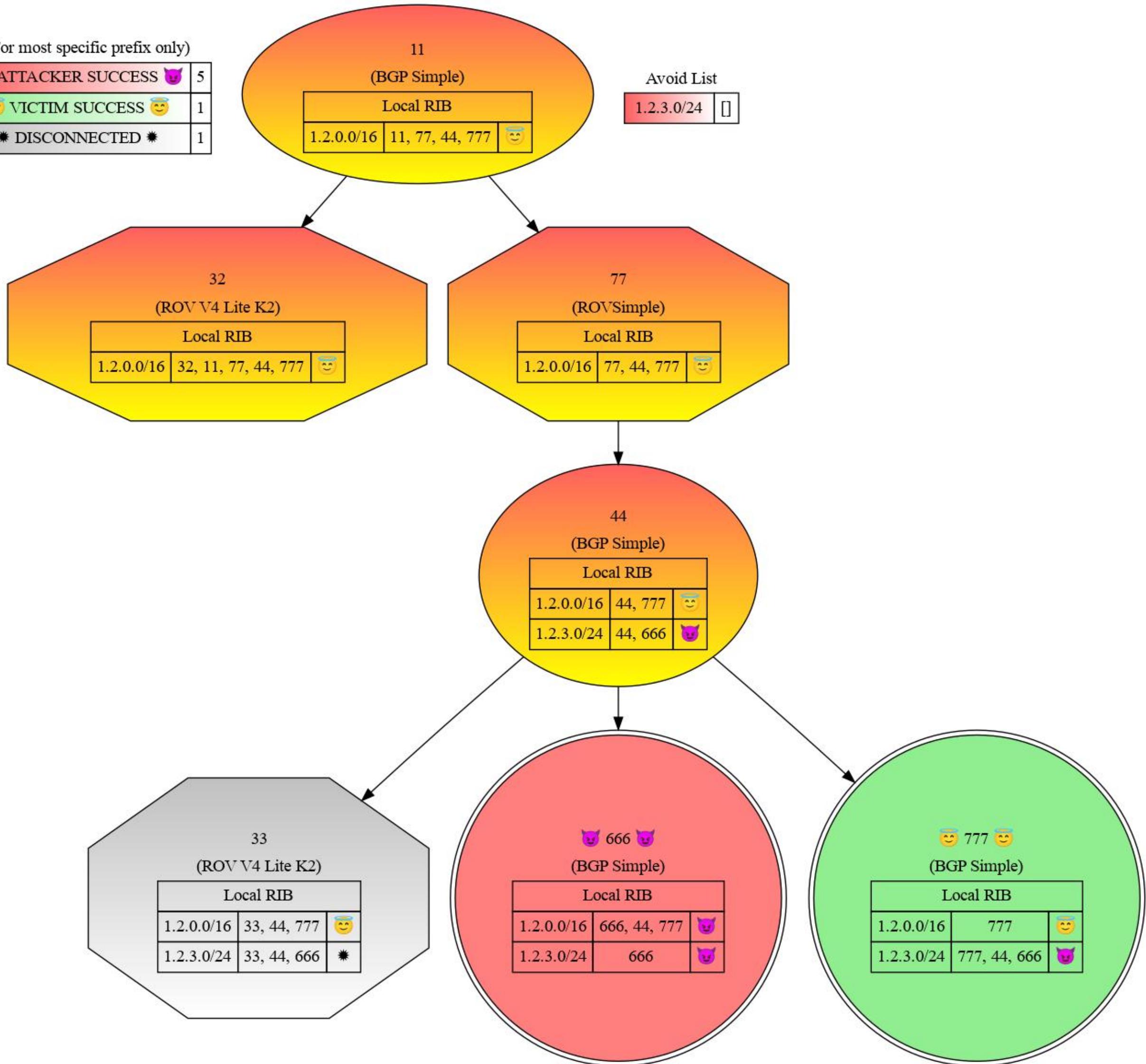
Avoid List  
1.2.3.0/24 []



(115 Guess)  
Subprefix Hijack with V4 Lite k=1  
Traceback for 1.2.3.0/24

(For most specific prefix only)

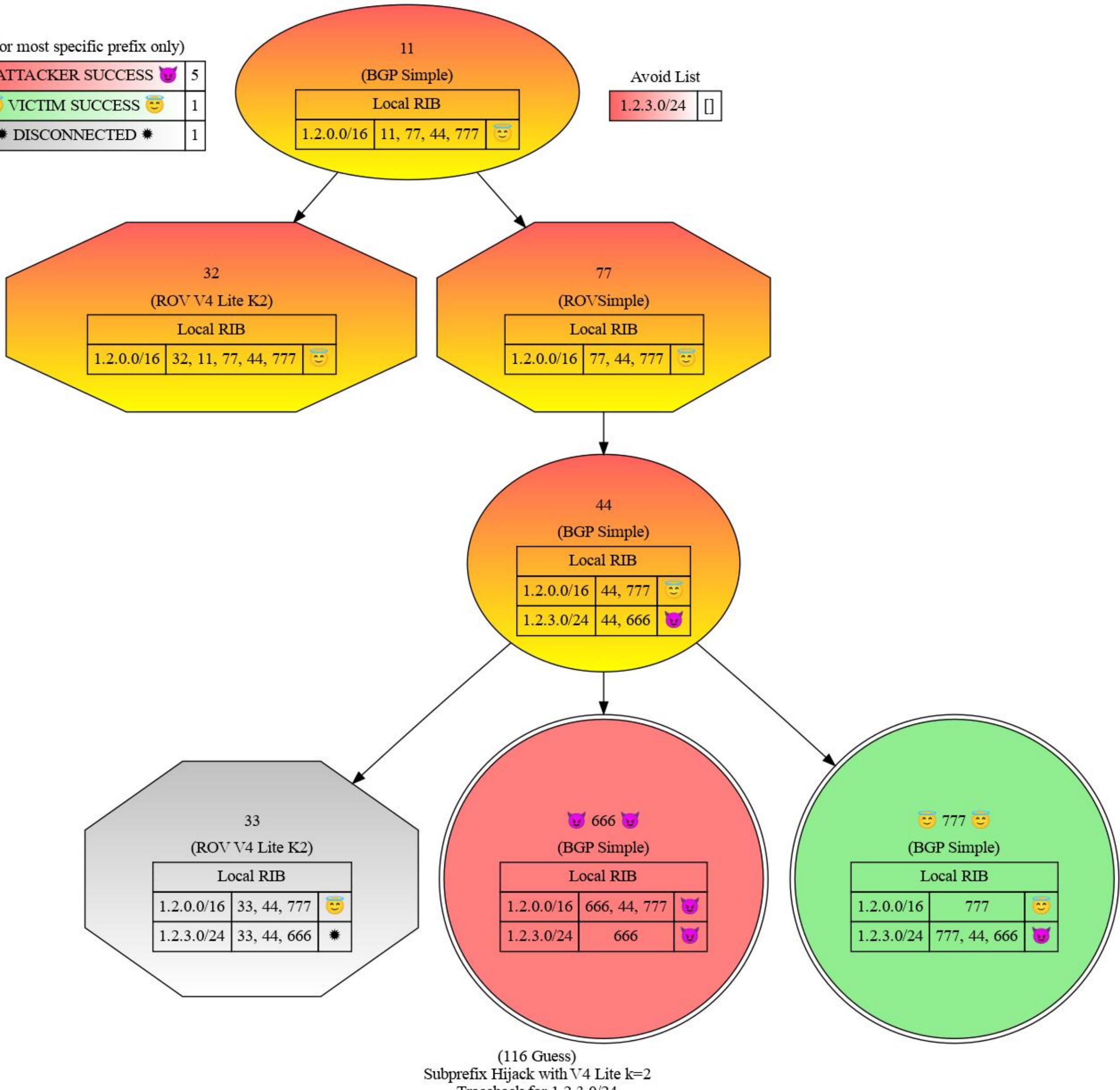
ATTACKER SUCCESS	5
VICTIM SUCCESS	1
DISCONNECTED	1



(116 Ground Truth)  
Subprefix Hijack with V4 Lite k=2  
Traceback for 1.2.3.0/24

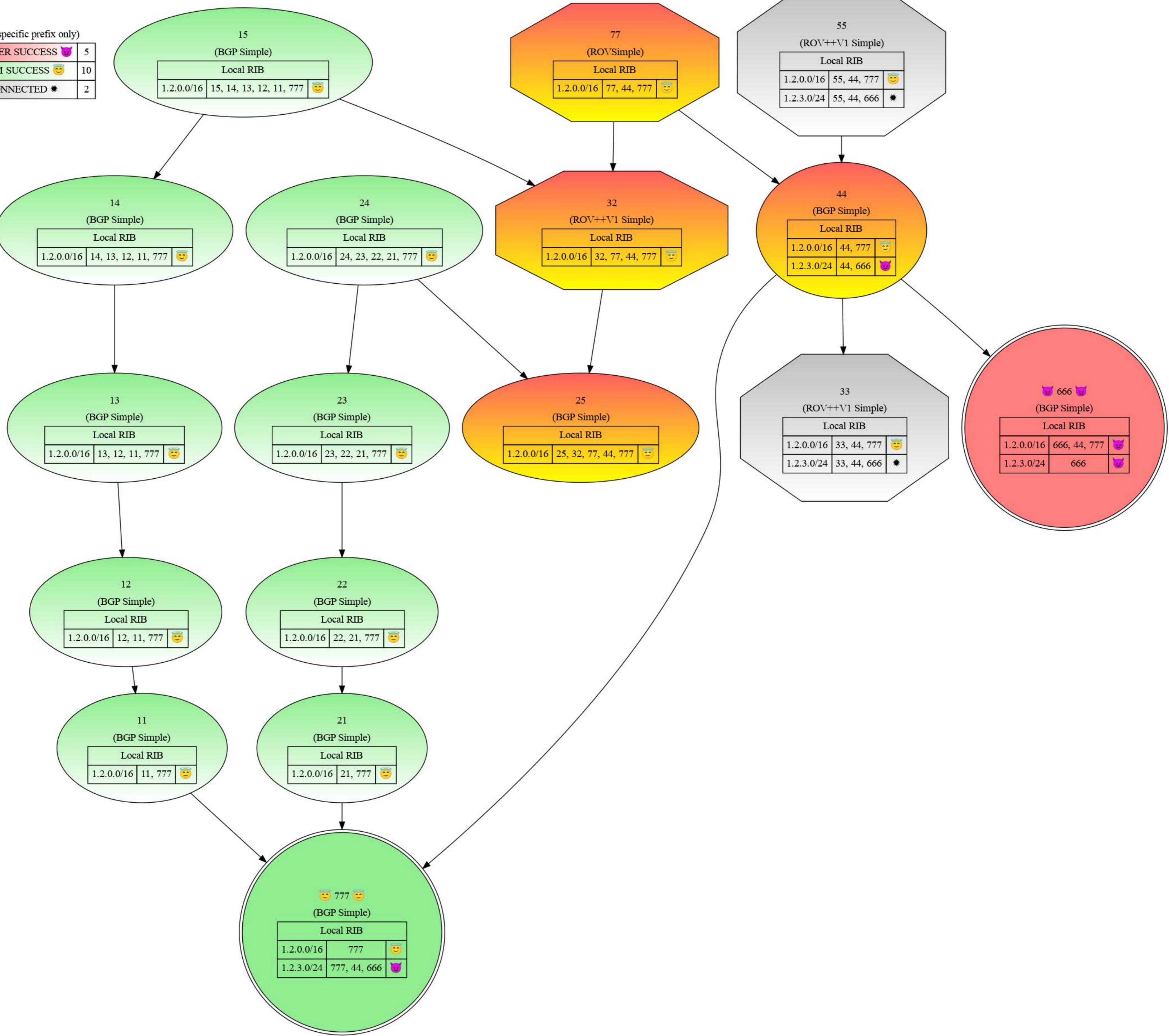
(For most specific prefix only)

ATTACKER SUCCESS	5
VICTIM SUCCESS	1
DISCONNECTED	1



(For most specific prefix only)

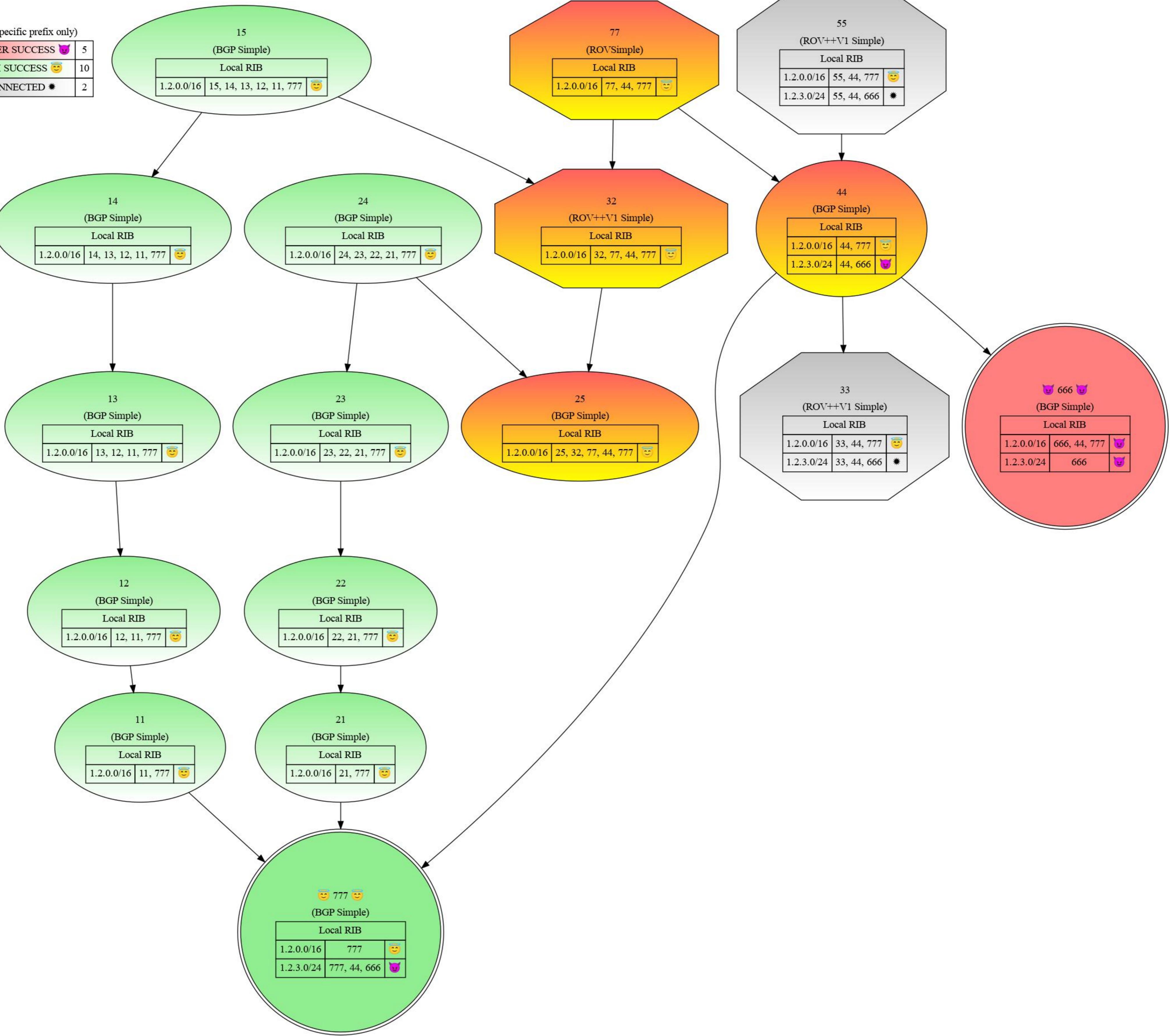
ATTACKER SUCCESS	5
VICTIM SUCCESS	10
DISCONNECTED	2



(117 Ground Truth)  
Subprefix Hijack with V1 Lite  
Traceback for 1.2.3.0/24

(For most specific prefix only)

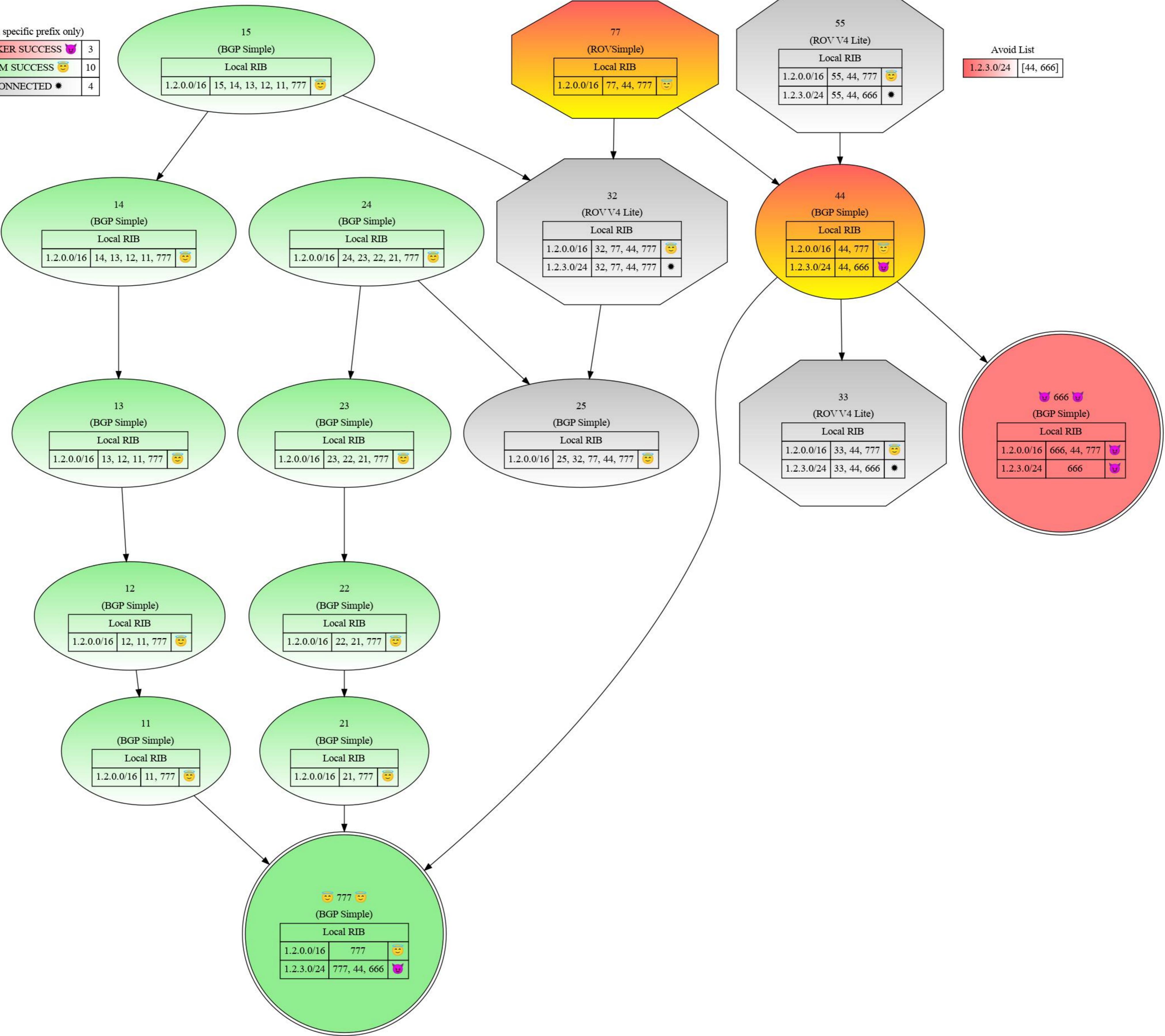
ATTACKER SUCCESS	5
VICTIM SUCCESS	10
DISCONNECTED	2



(117 Guess)  
Subprefix Hijack with V1 Lite  
Traceback for 1.2.3.0/24

(For most specific prefix only)

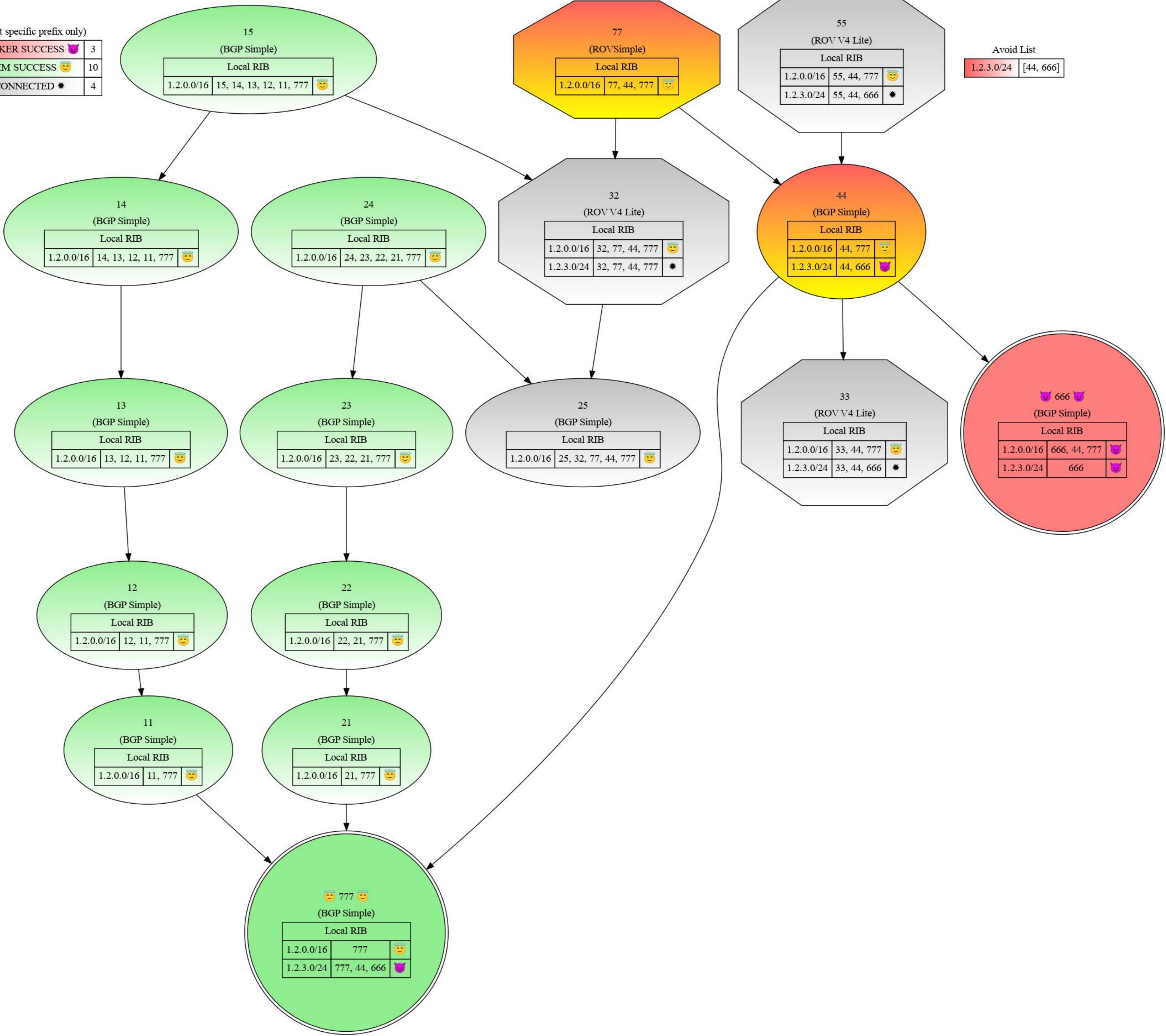
	ATTACKER SUCCESS		3
	VICTIM SUCCESS		10
*	DISCONNECTED	*	4



(118 Ground Truth)  
Subprefix Hijack with V4 Lite  
Traceback for 1.2.3.0/24

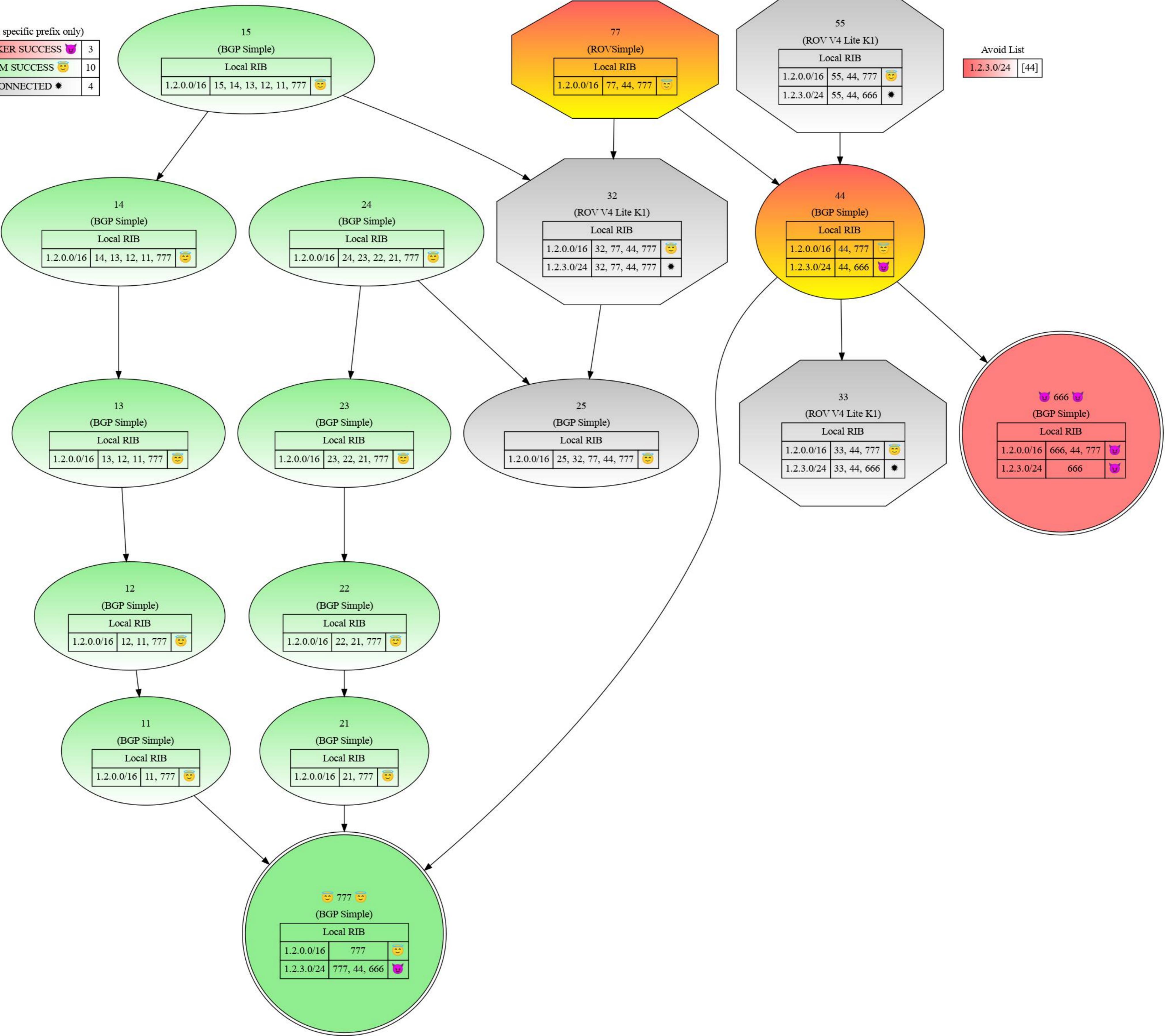
(For most specific prefix only)

ATTACKER SUCCESS	3
VICTIM SUCCESS	10
* DISCONNECTED *	4



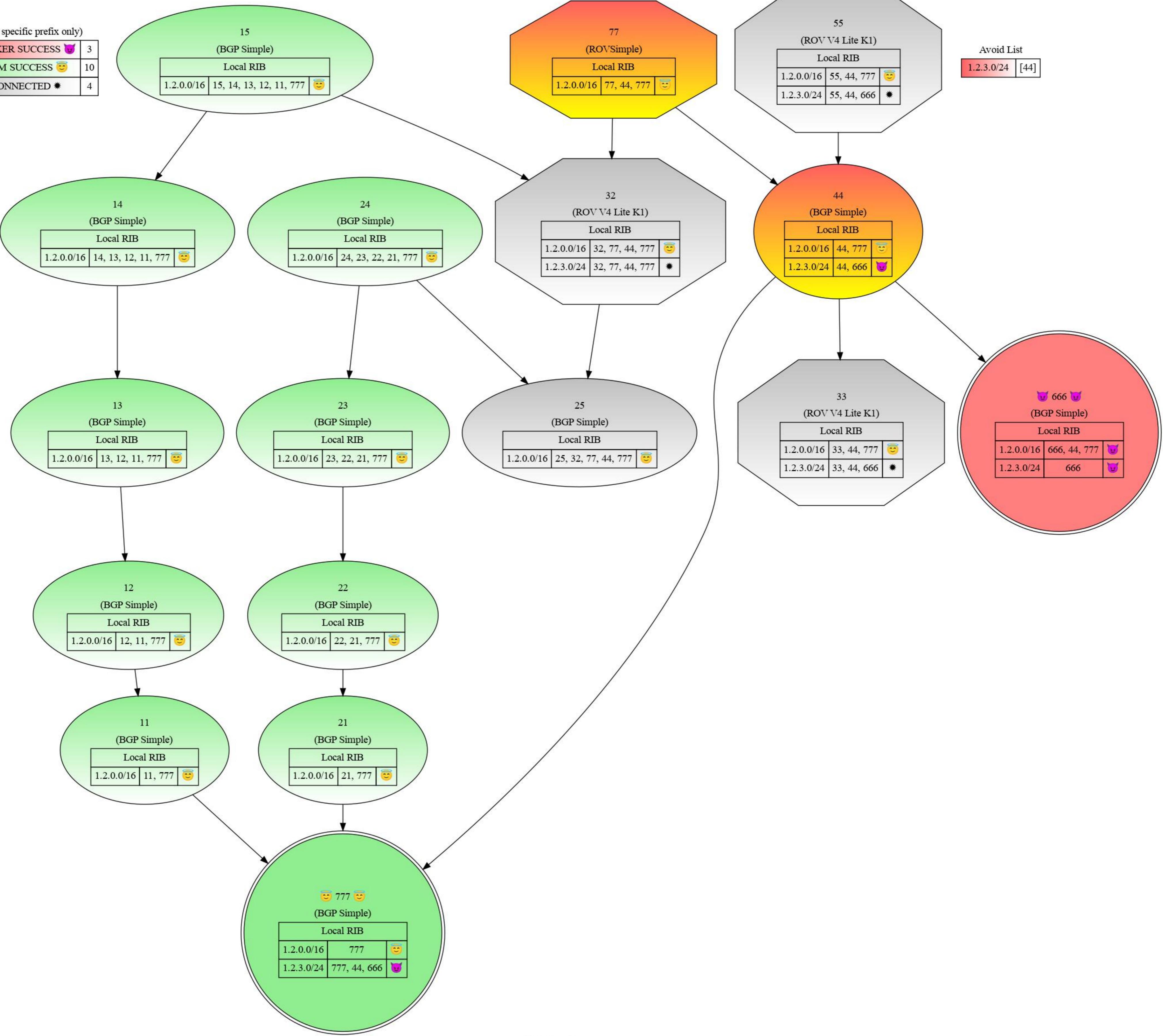
(For most specific prefix only)

ATTACKER SUCCESS	3
VICTIM SUCCESS	10
* DISCONNECTED *	4



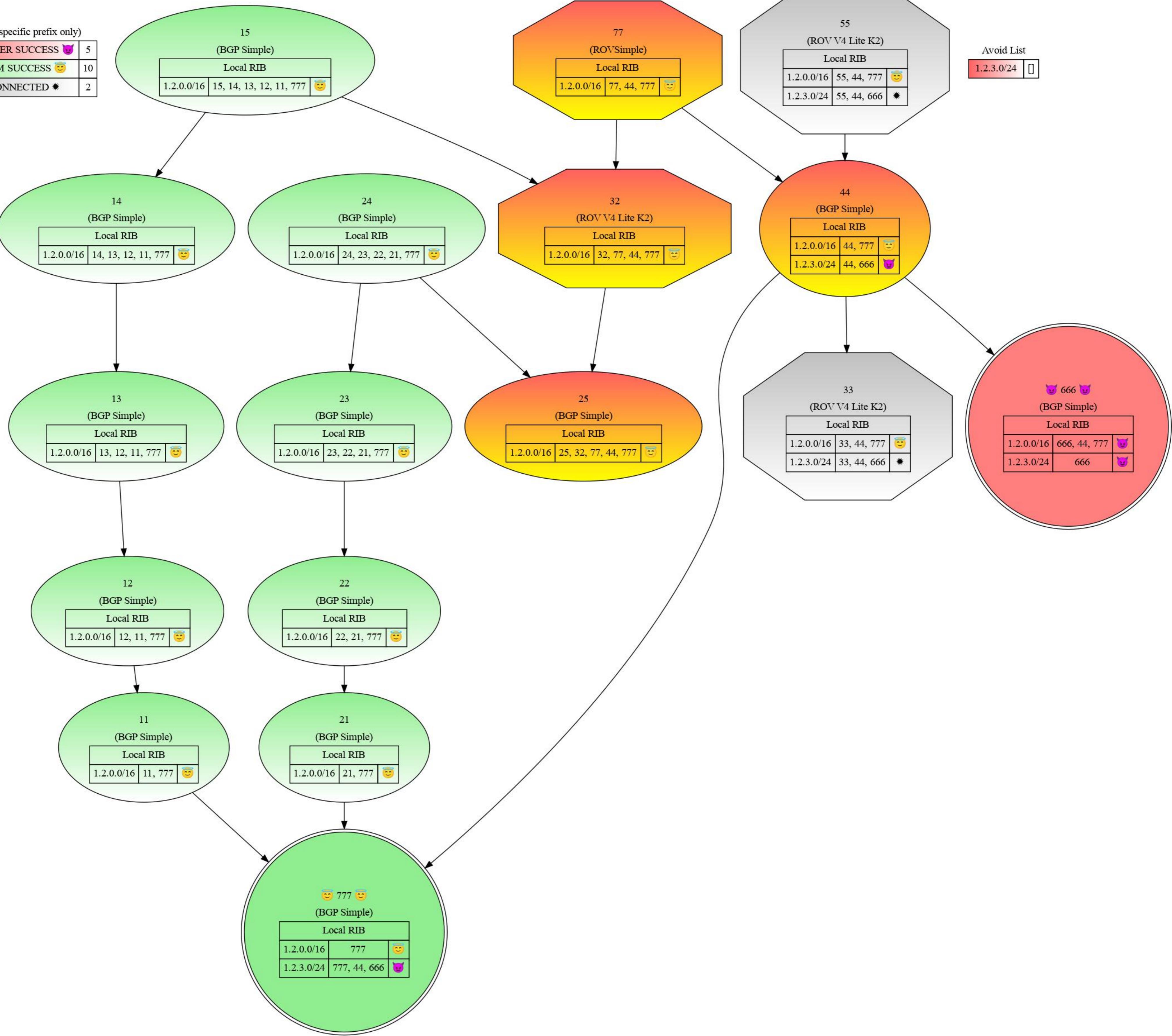
(For most specific prefix only)

ATTACKER SUCCESS	3
VICTIM SUCCESS	10
* DISCONNECTED *	4



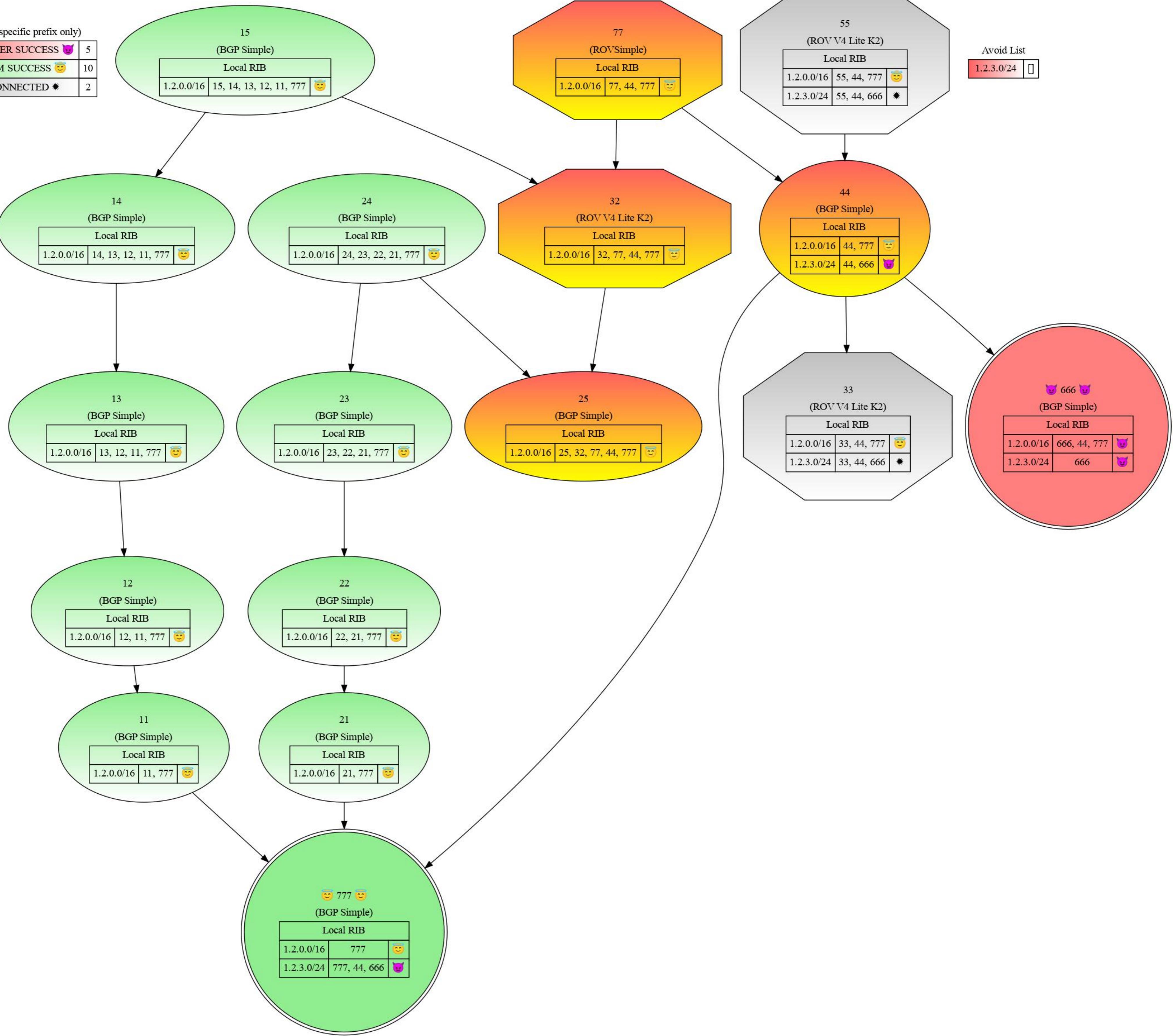
(For most specific prefix only)

ATTACKER SUCCESS	5
VICTIM SUCCESS	10
DISCONNECTED	2



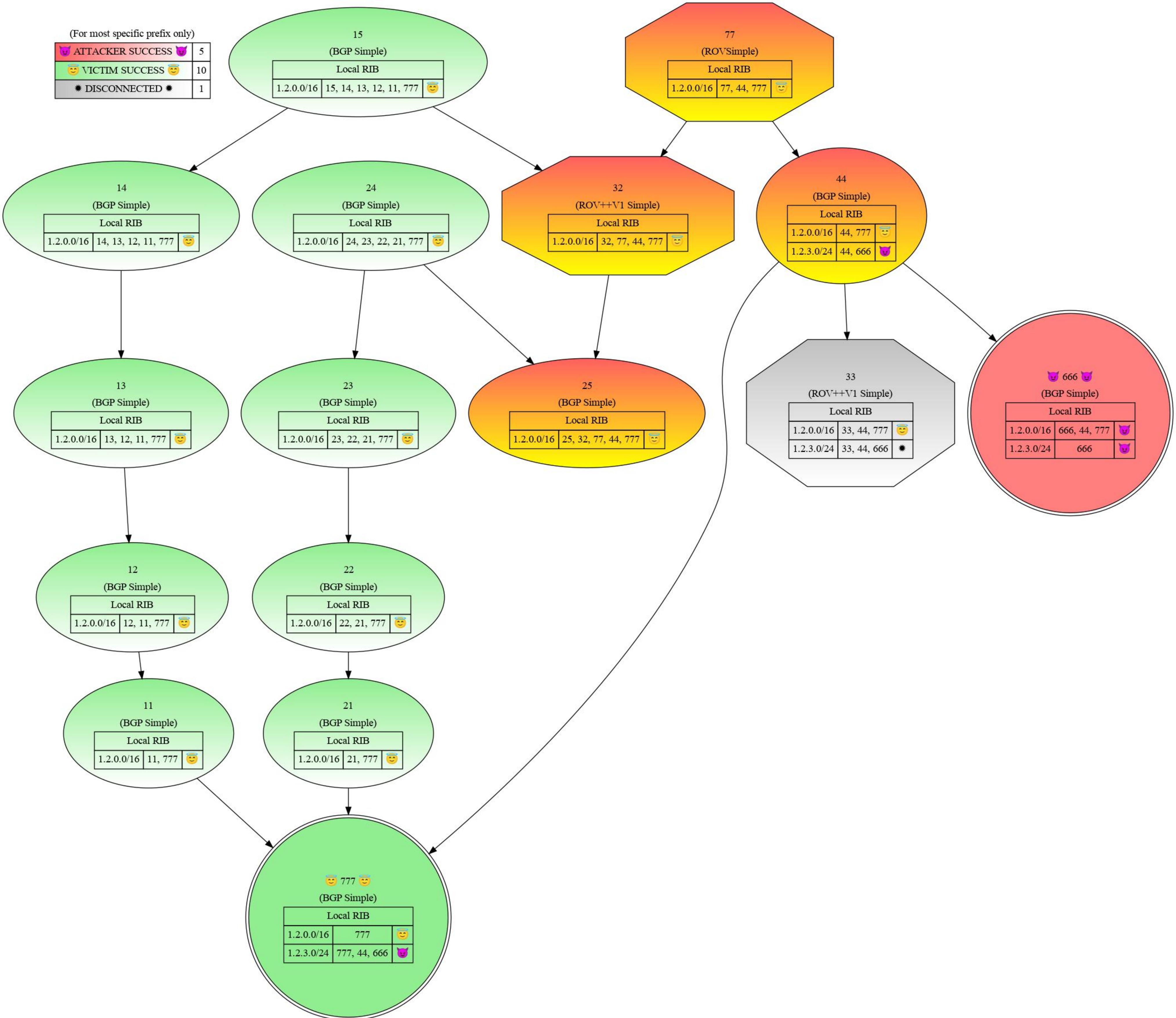
(For most specific prefix only)

ATTACKER SUCCESS	5
VICTIM SUCCESS	10
DISCONNECTED	2



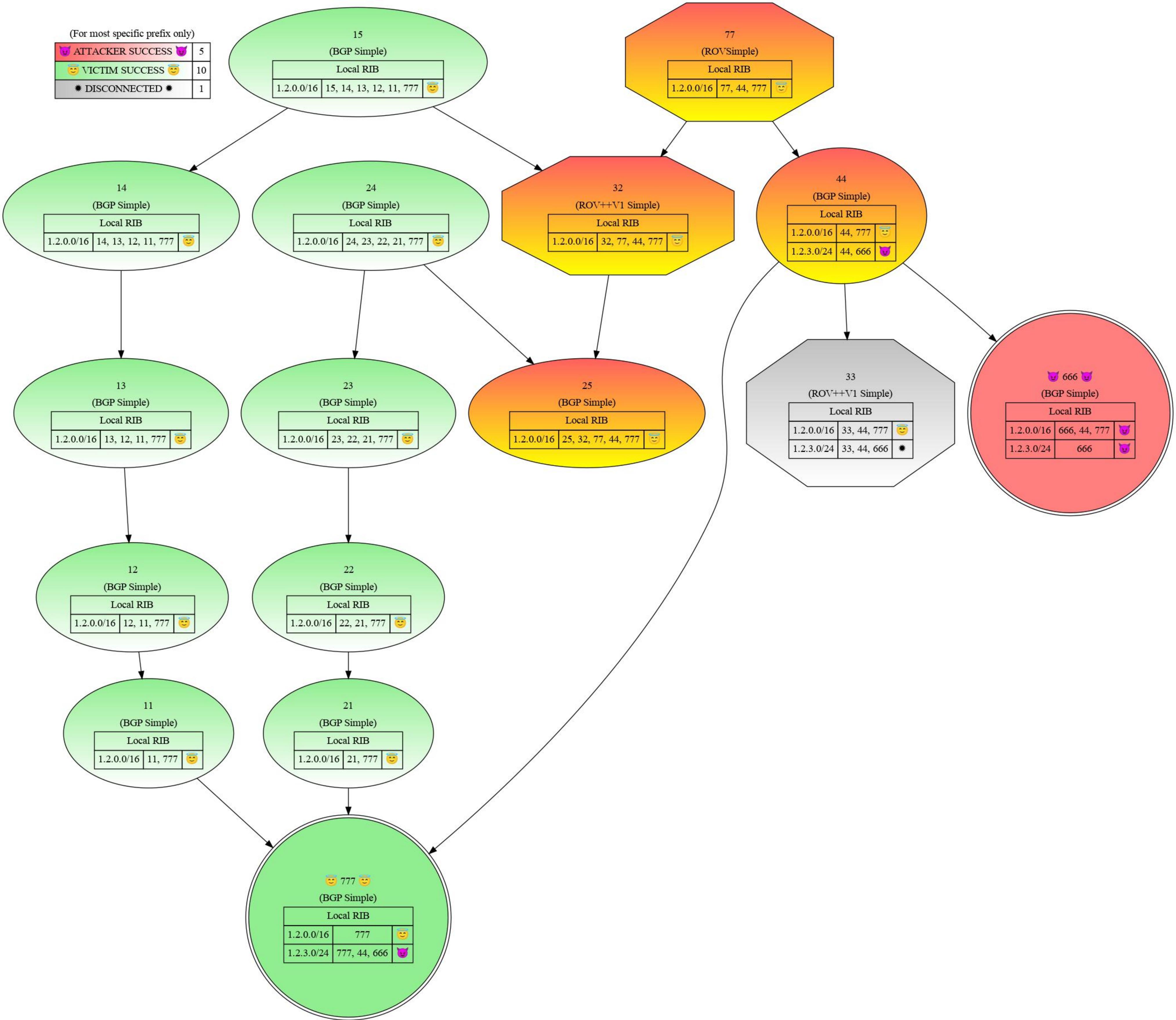
(120 Guess)  
Subprefix Hijack with V4 Lite k=2  
Traceback for 1.2.3.0/24

(For most specific prefix only)		
ATTACKER SUCCESS 😈	5	
VICTIM SUCCESS 😊	10	
* DISCONNECTED *	1	



(121 Ground Truth)  
Subprefix Hijack with V1 Lite  
Traceback for 1.2.3.0/24

(For most specific prefix only)		
ATTACKER SUCCESS 😈	5	
VICTIM SUCCESS 😊	10	
* DISCONNECTED *	1	



(121 Guess)  
Subprefix Hijack with V1 Lite  
Traceback for 1.2.3.0/24

(For most specific prefix only)

	ATTACKER SUCCESS	3
	VICTIM SUCCESS	10
* DISCONNECTED *		3

15  
(BGP Simple)

Local RIB

1.2.0.0/16	15, 14, 13, 12, 11, 777	
------------	-------------------------	--

14

(BGP Simple)

Local RIB

1.2.0.0/16	14, 13, 12, 11, 777	
------------	---------------------	--

24

(BGP Simple)

Local RIB

1.2.0.0/16	24, 23, 22, 21, 777	
------------	---------------------	--

77  
(ROV Simple)

Local RIB

1.2.0.0/16	77, 44, 777	
------------	-------------	--

Avoid List

1.2.3.0/24	[44, 666]
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32  
(ROV V4 Lite)

Local RIB

1.2.0.0/16	32, 77, 44, 777	
------------	-----------------	--

1.2.3.0/24	32, 77, 44, 777	*
------------	-----------------	---

44  
(BGP Simple)

Local RIB

1.2.0.0/16	44, 777	
------------	---------	--

1.2.3.0/24	44, 666	
------------	---------	--

666

(BGP Simple)

Local RIB

1.2.0.0/16	666, 44, 777	
------------	--------------	--

1.2.3.0/24	666	
------------	-----	--

25

(BGP Simple)

Local RIB

1.2.0.0/16	25, 32, 77, 44, 777	
------------	---------------------	--

33

(ROV V4 Lite)

Local RIB

1.2.0.0/16	33, 44, 777	
------------	-------------	--

1.2.3.0/24	33, 44, 666	*
------------	-------------	---

23

(BGP Simple)

Local RIB

1.2.0.0/16	23, 22, 21, 777	
------------	-----------------	--

22

(BGP Simple)

Local RIB

1.2.0.0/16	22, 21, 777	
------------	-------------	--

21

(BGP Simple)

Local RIB

1.2.0.0/16	21, 777	
------------	---------	--

11

(BGP Simple)

Local RIB

1.2.0.0/16	11, 777	
------------	---------	--

777

(BGP Simple)

Local RIB

1.2.0.0/16	777	
------------	-----	--

(122 Ground Truth)  
Subprefix Hijack with V4 Lite  
Traceback for 1.2.3.0/24

(For most specific prefix only)

ATTACKER SUCCESS 😊	3
VICTIM SUCCESS 😊	10
DISCONNECTED *	3

15  
(BGP Simple)

Local RIB

1.2.0.0/16	15, 14, 13, 12, 11, 777	😊
------------	-------------------------	---

77  
(ROV Simple)

Local RIB

1.2.0.0/16	77, 44, 777	😊
------------	-------------	---

Avoid List

1.2.3.0/24	[44, 666]
------------	-----------

14

(BGP Simple)

Local RIB

1.2.0.0/16	14, 13, 12, 11, 777	😊
------------	---------------------	---

24

(BGP Simple)

Local RIB

1.2.0.0/16	24, 23, 22, 21, 777	😊
------------	---------------------	---

32  
(ROV V4 Lite)

Local RIB

1.2.0.0/16	32, 77, 44, 777	😊
------------	-----------------	---

1.2.3.0/24	32, 77, 44, 777	*
------------	-----------------	---

44  
(BGP Simple)

Local RIB

1.2.0.0/16	44, 777	😊
------------	---------	---

1.2.3.0/24	44, 666	😊
------------	---------	---

666 😊

(BGP Simple)

Local RIB

1.2.0.0/16	666, 44, 777	😊
------------	--------------	---

1.2.3.0/24	666	😊
------------	-----	---

13

(BGP Simple)

Local RIB

1.2.0.0/16	13, 12, 11, 777	😊
------------	-----------------	---

23

(BGP Simple)

Local RIB

1.2.0.0/16	23, 22, 21, 777	😊
------------	-----------------	---

25

(BGP Simple)

Local RIB

1.2.0.0/16	25, 32, 77, 44, 777	😊
------------	---------------------	---

12

(BGP Simple)

Local RIB

1.2.0.0/16	12, 11, 777	😊
------------	-------------	---

22

(BGP Simple)

Local RIB

1.2.0.0/16	22, 21, 777	😊
------------	-------------	---

11

(BGP Simple)

Local RIB

1.2.0.0/16	11, 777	😊
------------	---------	---

21

(BGP Simple)

Local RIB

1.2.0.0/16	21, 777	😊
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😊 777 😊

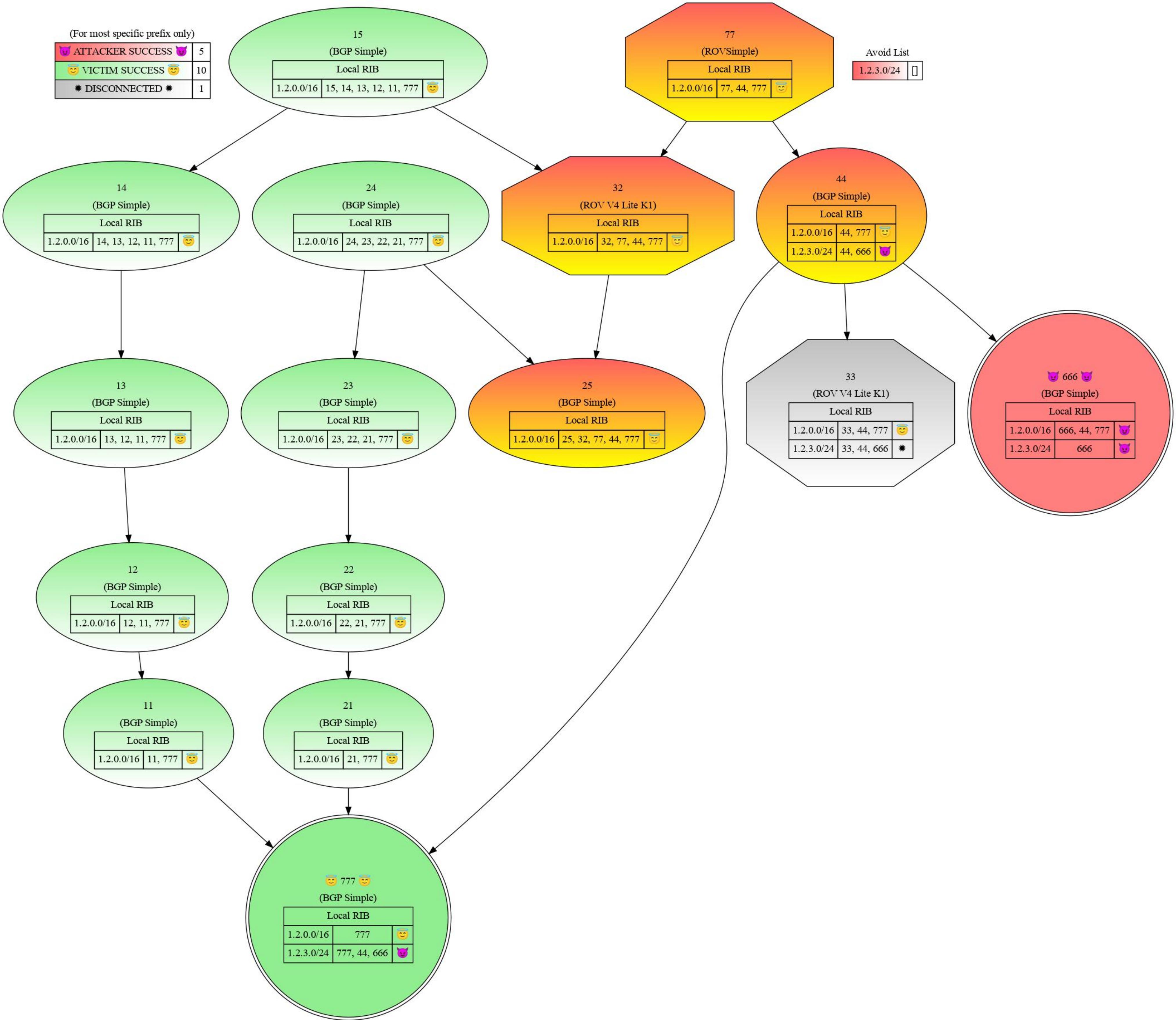
(BGP Simple)

Local RIB

1.2.0.0/16	777	😊
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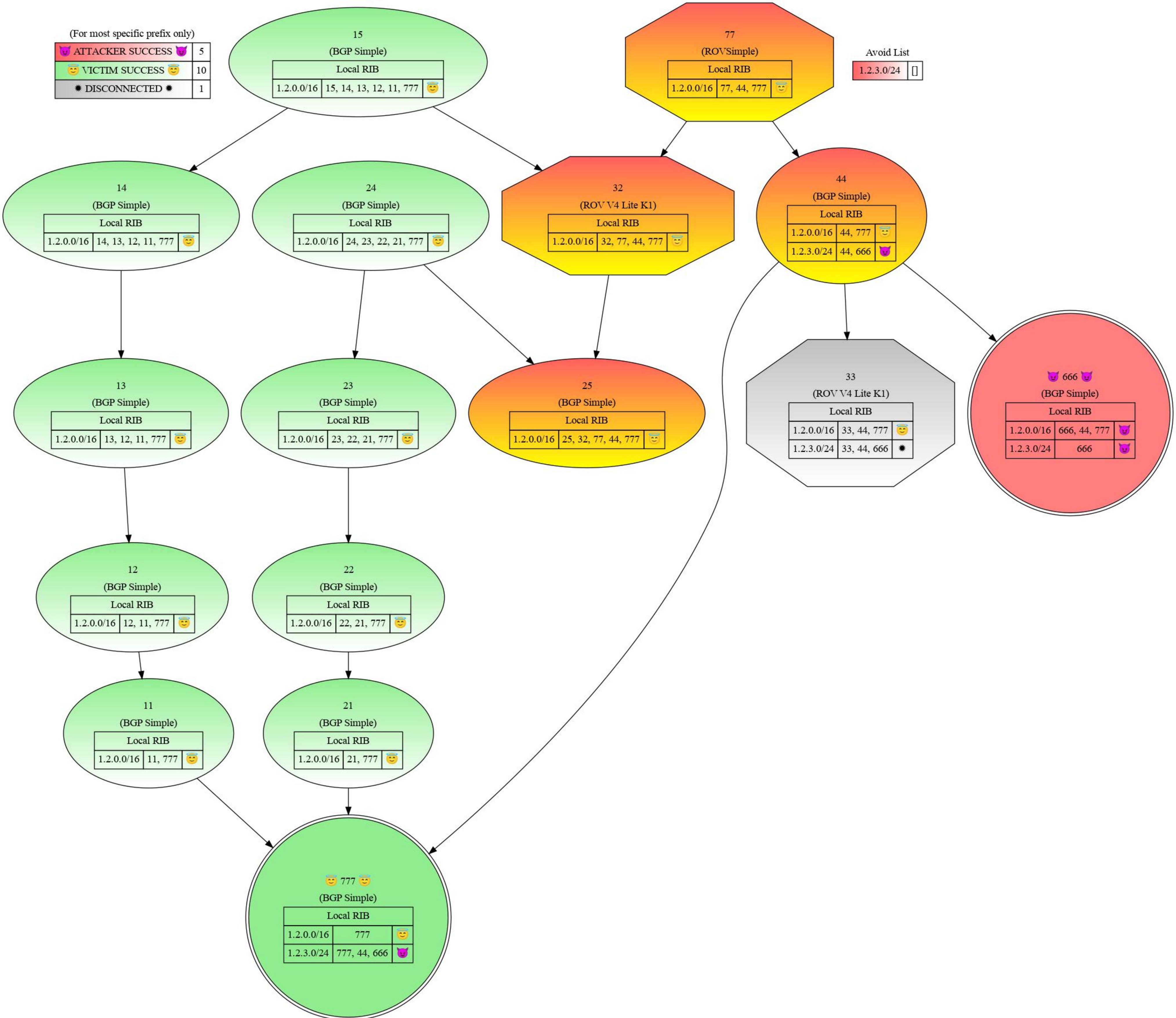
(122 Guess)  
Subprefix Hijack with V4 Lite  
Traceback for 1.2.3.0/24

(For most specific prefix only)		
ATTACKER SUCCESS 😈	5	
VICTIM SUCCESS 😊	10	
* DISCONNECTED *	1	



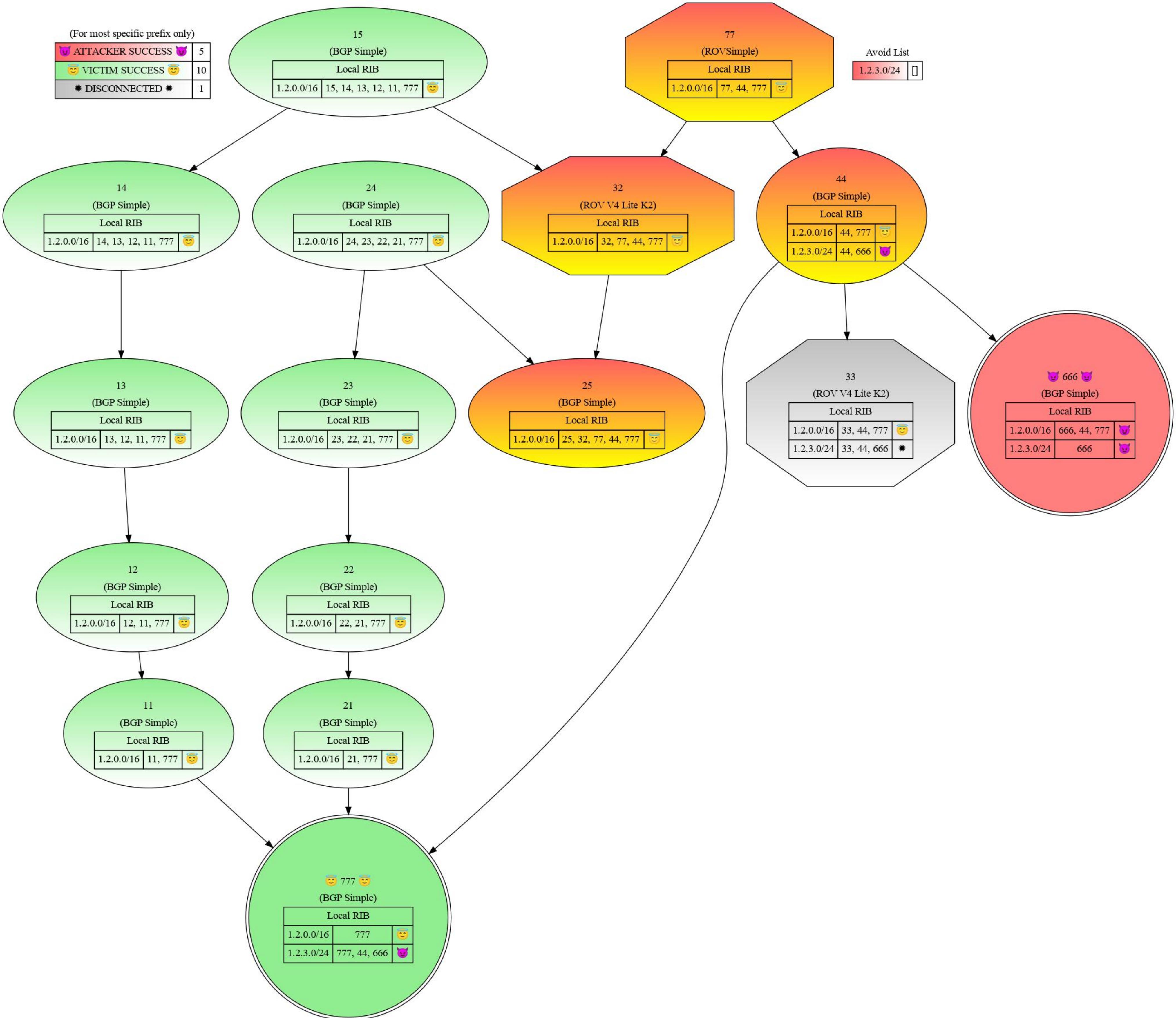
(123 Ground Truth)  
Subprefix Hijack with V4 Lite k=1  
Traceback for 1.2.3.0/24

(For most specific prefix only)		
ATTACKER SUCCESS 😈	5	
VICTIM SUCCESS 😊	10	
* DISCONNECTED *	1	



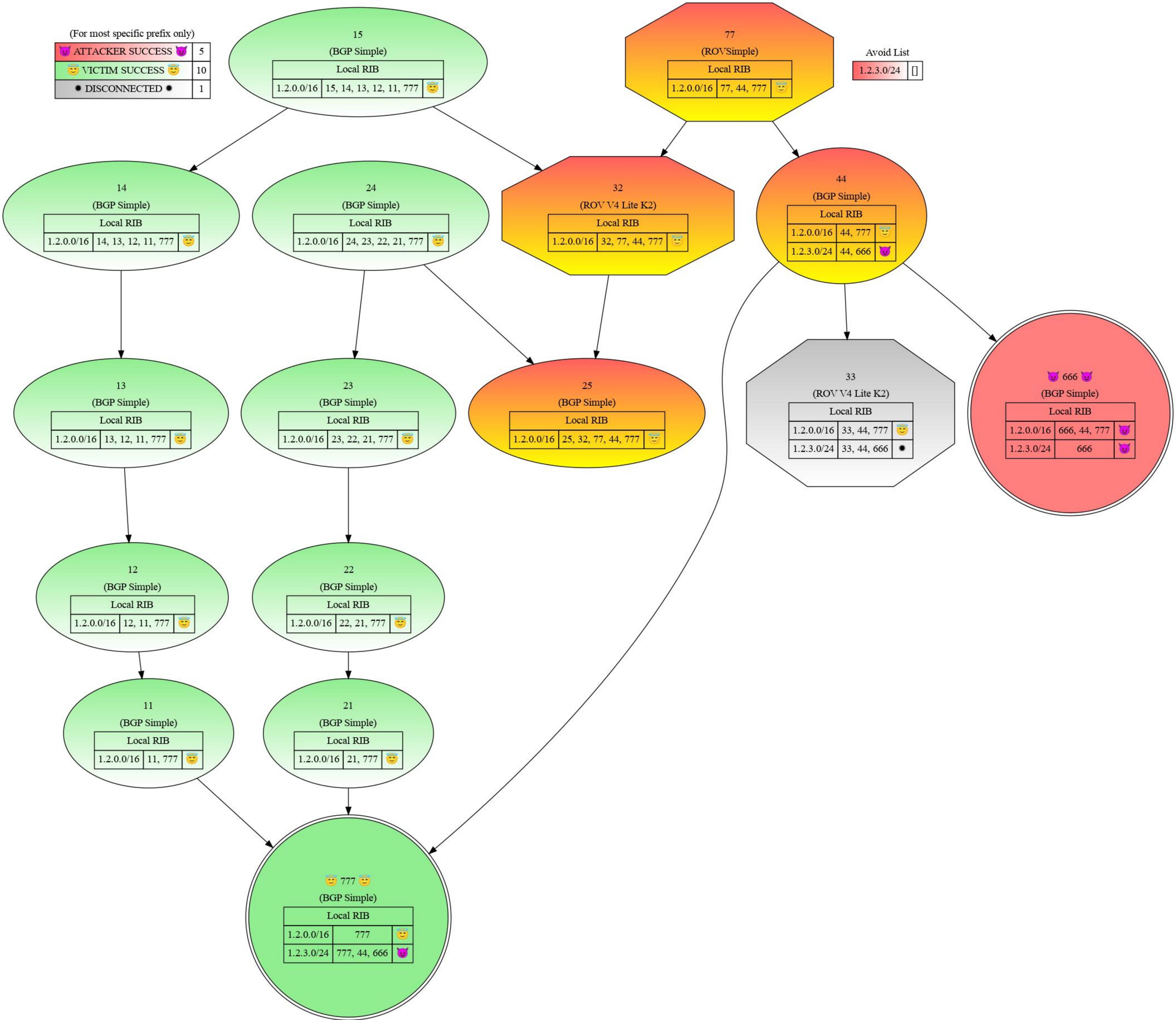
(123 Guess)  
Subprefix Hijack with V4 Lite k=1  
Traceback for 1.2.3.0/24

(For most specific prefix only)		
ATTACKER SUCCESS 😈	5	
VICTIM SUCCESS 😊	10	
* DISCONNECTED *	1	



(124 Ground Truth)  
Subprefix Hijack with V4 Lite k=2  
Traceback for 1.2.3.0/24

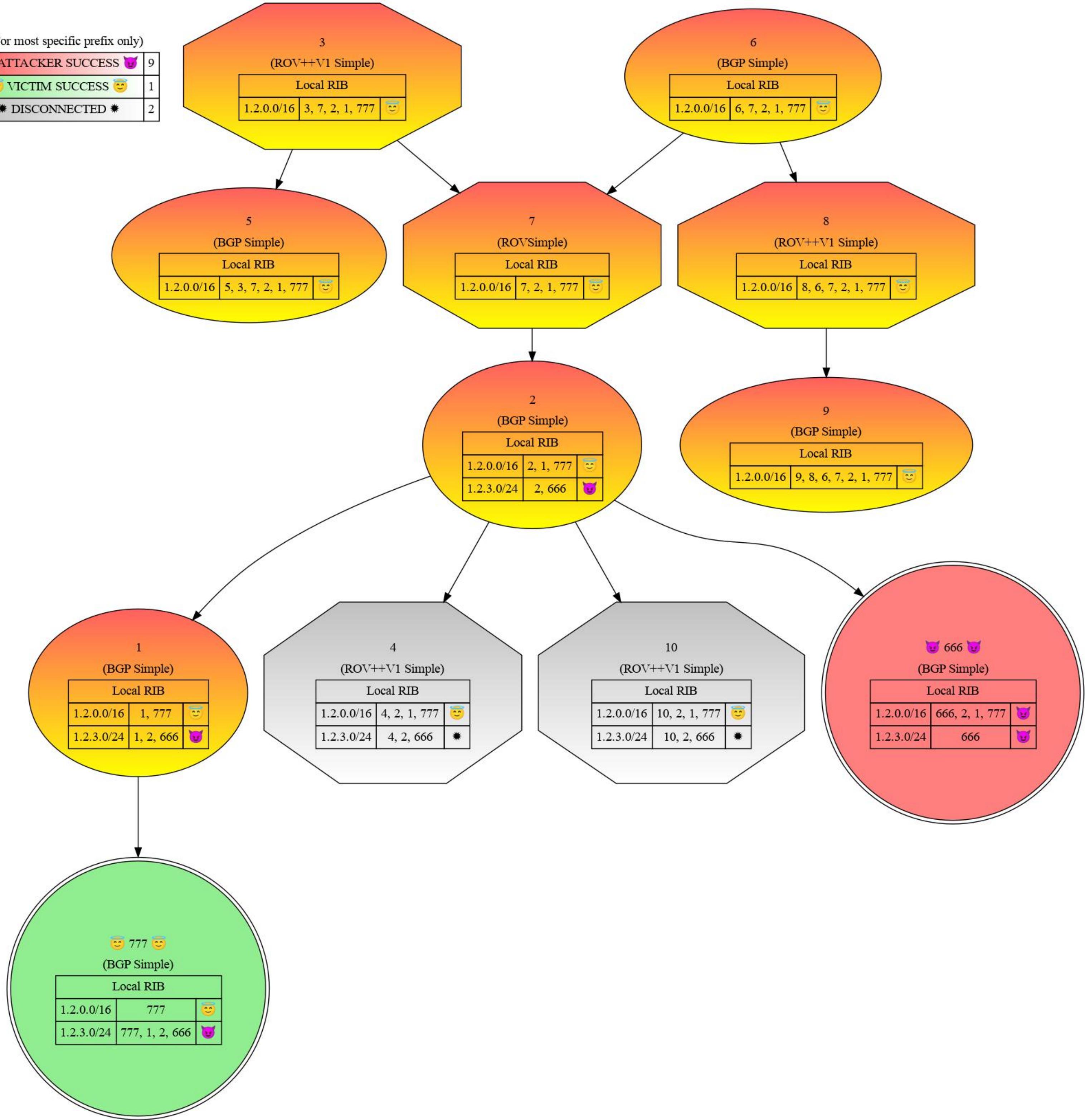
(For most specific prefix only)		
ATTACKER SUCCESS 😈	5	
VICTIM SUCCESS 😊	10	
* DISCONNECTED *	1	



(124 Guess)  
Subprefix Hijack with V4 Lite k=2  
Traceback for 1.2.3.0/24

(For most specific prefix only)

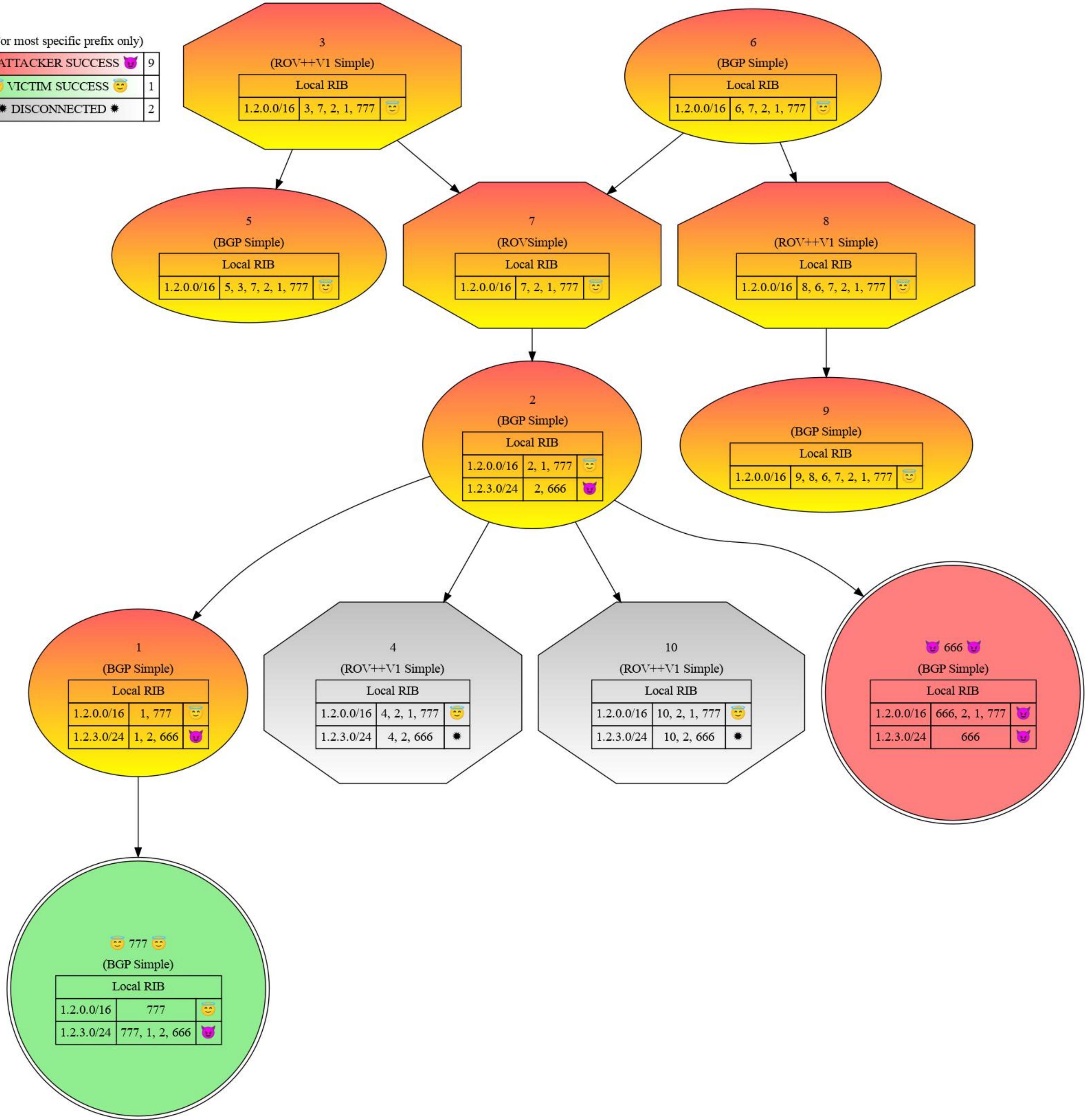
ATTACKER SUCCESS	9
VICTIM SUCCESS	1
DISCONNECTED	2



(125 Ground Truth)  
Subprefix Hijack with V1 Lite  
Traceback for 1.2.3.0/24

(For most specific prefix only)

ATTACKER SUCCESS	9
VICTIM SUCCESS	1
DISCONNECTED	2



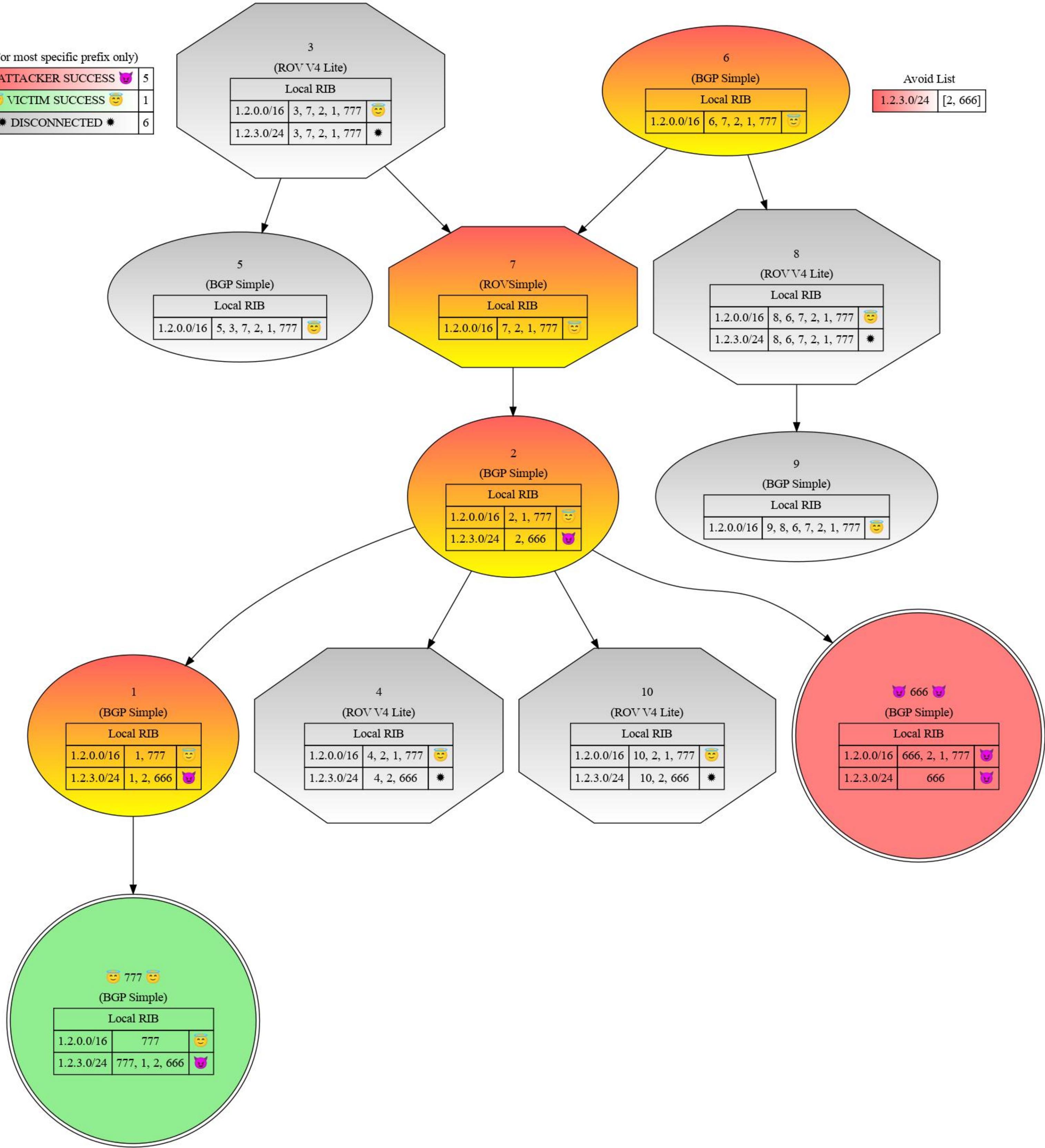
(125 Guess)  
Subprefix Hijack with V1 Lite  
Traceback for 1.2.3.0/24

(For most specific prefix only)

ATTACKER SUCCESS	5
VICTIM SUCCESS	1
DISCONNECTED	6

Avoid List

1.2.3.0/24	[2, 666]
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(126 Ground Truth)  
Subprefix Hijack with V4 Lite  
Traceback for 1.2.3.0/24

(For most specific prefix only)

ATTACKER SUCCESS	5
VICTIM SUCCESS	1
DISCONNECTED	6

3

(ROV V4 Lite)

Local RIB

1.2.0.0/16	3, 7, 2, 1, 777	😊
1.2.3.0/24	3, 7, 2, 1, 777	*

6

(BGP Simple)

Local RIB

1.2.0.0/16	6, 7, 2, 1, 777	😊
1.2.3.0/24	6, 7, 2, 1, 777	*

Avoid List

1.2.3.0/24	[2, 666]
------------	----------

5

(BGP Simple)

Local RIB

1.2.0.0/16	5, 3, 7, 2, 1, 777	😊
1.2.3.0/24	5, 3, 7, 2, 1, 777	*

7

(ROVSimple)

Local RIB

1.2.0.0/16	7, 2, 1, 777	😊
1.2.3.0/24	7, 2, 1, 777	*

8

(ROVV4 Lite)

Local RIB

1.2.0.0/16	8, 6, 7, 2, 1, 777	😊
1.2.3.0/24	8, 6, 7, 2, 1, 777	*

2

(BGP Simple)

Local RIB

1.2.0.0/16	2, 1, 777	😊
1.2.3.0/24	2, 666	😈

9

(BGP Simple)

Local RIB

1.2.0.0/16	9, 8, 6, 7, 2, 1, 777	😊
1.2.3.0/24	9, 8, 6, 7, 2, 1, 777	*

1

(BGP Simple)

Local RIB

1.2.0.0/16	1, 777	😊
1.2.3.0/24	1, 2, 666	😈

4

(ROV V4 Lite)

Local RIB

1.2.0.0/16	4, 2, 1, 777	😊
1.2.3.0/24	4, 2, 666	*

10

(ROV V4 Lite)

Local RIB

1.2.0.0/16	10, 2, 1, 777	😊
1.2.3.0/24	10, 2, 666	*

666 😈

(BGP Simple)

Local RIB

1.2.0.0/16	666, 2, 1, 777	😈
1.2.3.0/24	666	😈

😊 777 😊

(BGP Simple)

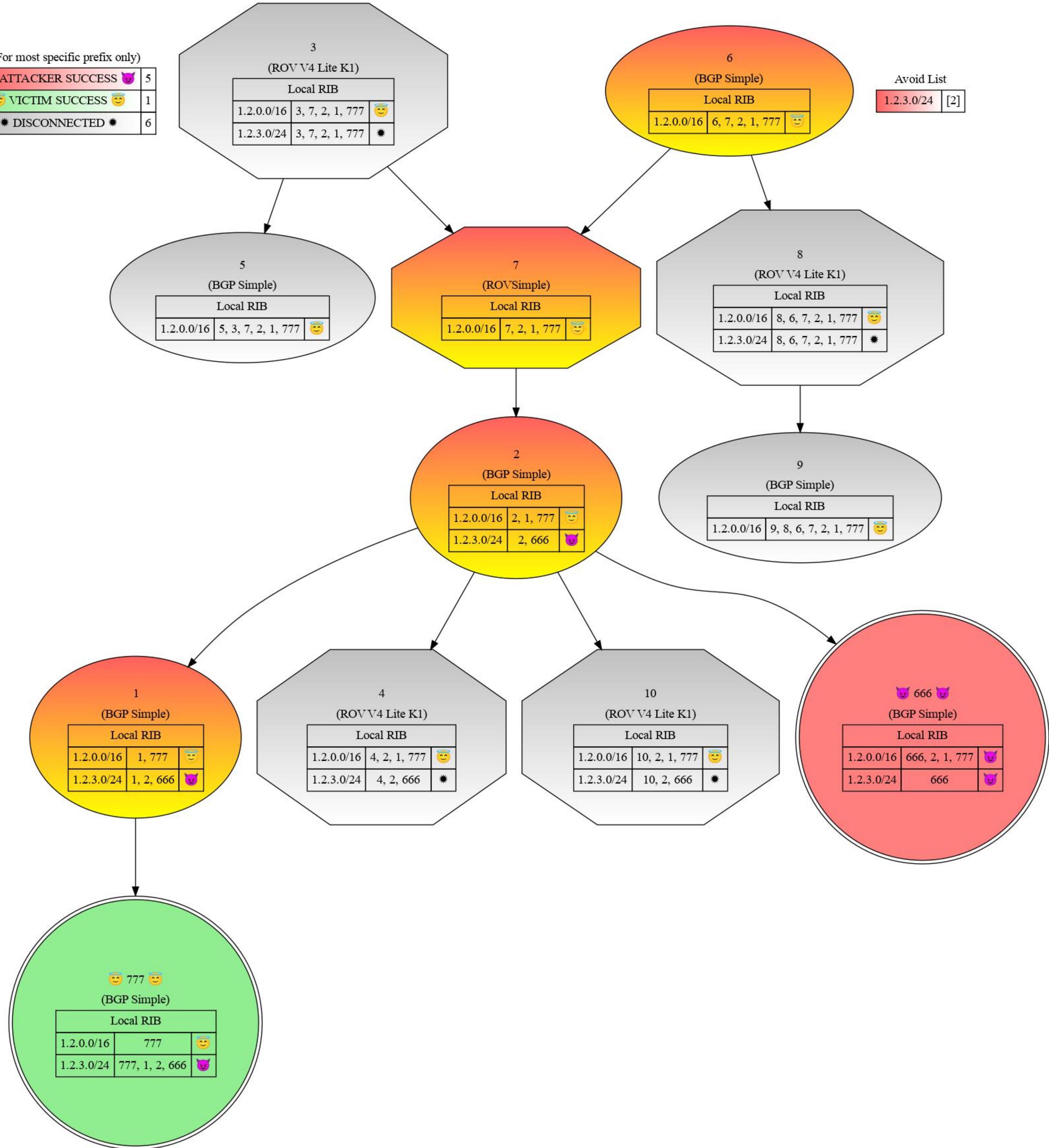
Local RIB

1.2.0.0/16	777	😊
1.2.3.0/24	777, 1, 2, 666	😈

(126 Guess)  
Subprefix Hijack with V4 Lite  
Traceback for 1.2.3.0/24

(For most specific prefix only)

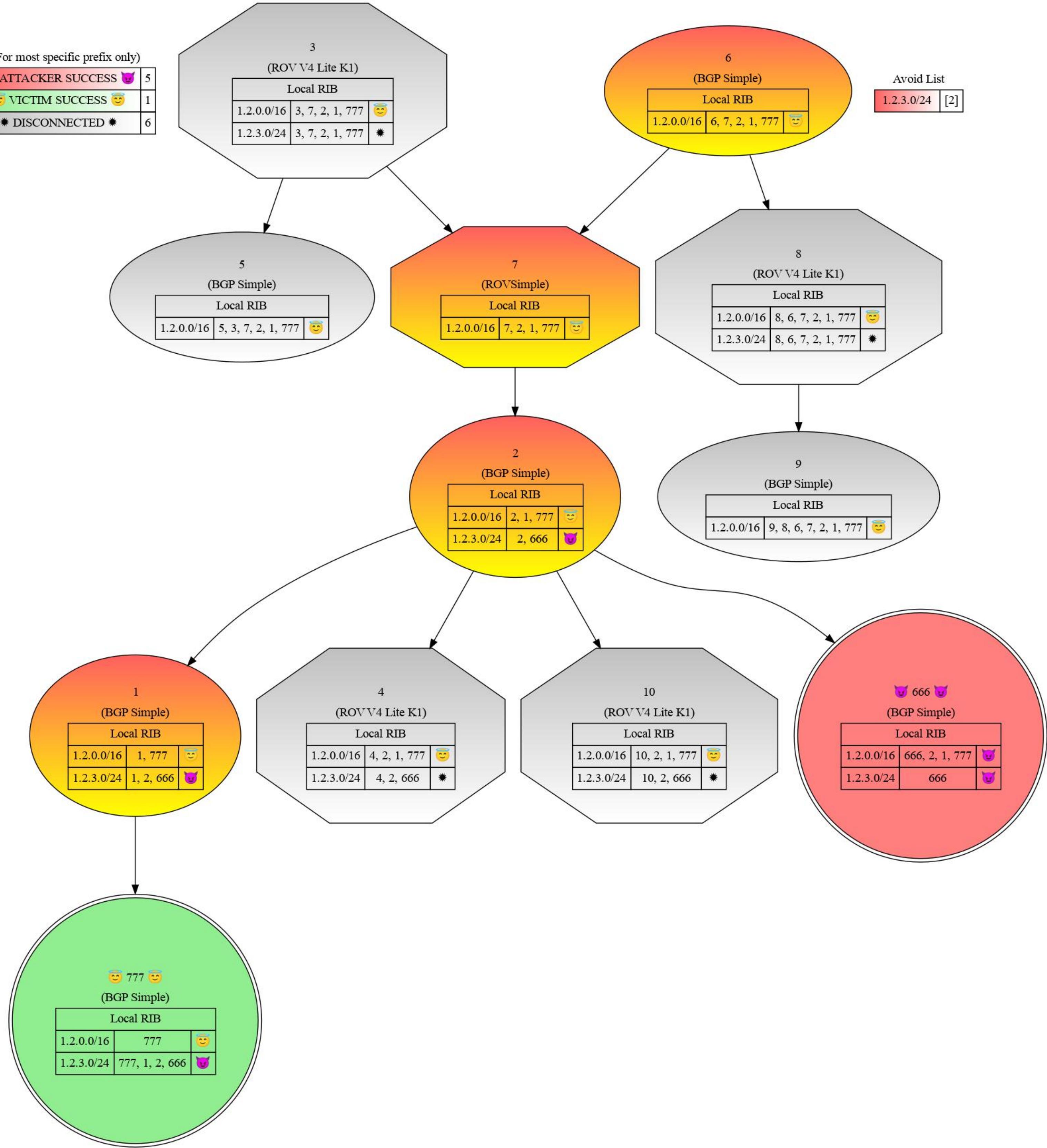
ATTACKER SUCCESS	5
VICTIM SUCCESS	1
DISCONNECTED	6



(127 Ground Truth)  
Subprefix Hijack with V4 Lite k=1  
Traceback for 1.2.3.0/24

(For most specific prefix only)

ATTACKER SUCCESS	5
VICTIM SUCCESS	1
DISCONNECTED	6



(127 Guess)  
Subprefix Hijack with V4 Lite k=1  
Traceback for 1.2.3.0/24

(For most specific prefix only)

	ATTACKER SUCCESS		9
	VICTIM SUCCESS		1
*	DISCONNECTED	*	2

3

(ROV V4 Lite K2)

Local RIB

1.2.0.0/16	3, 7, 2, 1, 777	
------------	-----------------	--

5

(BGP Simple)

Local RIB

1.2.0.0/16	5, 3, 7, 2, 1, 777	
------------	--------------------	--

7

(ROVSimple)

Local RIB

1.2.0.0/16	7, 2, 1, 777	
------------	--------------	--

8

(ROV V4 Lite K2)

Local RIB

1.2.0.0/16	8, 6, 7, 2, 1, 777	
------------	--------------------	--

2

(BGP Simple)

Local RIB

1.2.0.0/16	2, 1, 777	
1.2.3.0/24	2, 666	

9

(BGP Simple)

Local RIB

1.2.0.0/16	9, 8, 6, 7, 2, 1, 777	
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1

(BGP Simple)

Local RIB

1.2.0.0/16	1, 777	
1.2.3.0/24	1, 2, 666	

4

(ROV V4 Lite K2)

Local RIB

1.2.0.0/16	4, 2, 1, 777	
1.2.3.0/24	4, 2, 666	*

10

(ROV V4 Lite K2)

Local RIB

1.2.0.0/16	10, 2, 1, 777	
1.2.3.0/24	10, 2, 666	*

666 666

(BGP Simple)

Local RIB

1.2.0.0/16	666, 2, 1, 777	
1.2.3.0/24	666	

777 777

(BGP Simple)

Local RIB

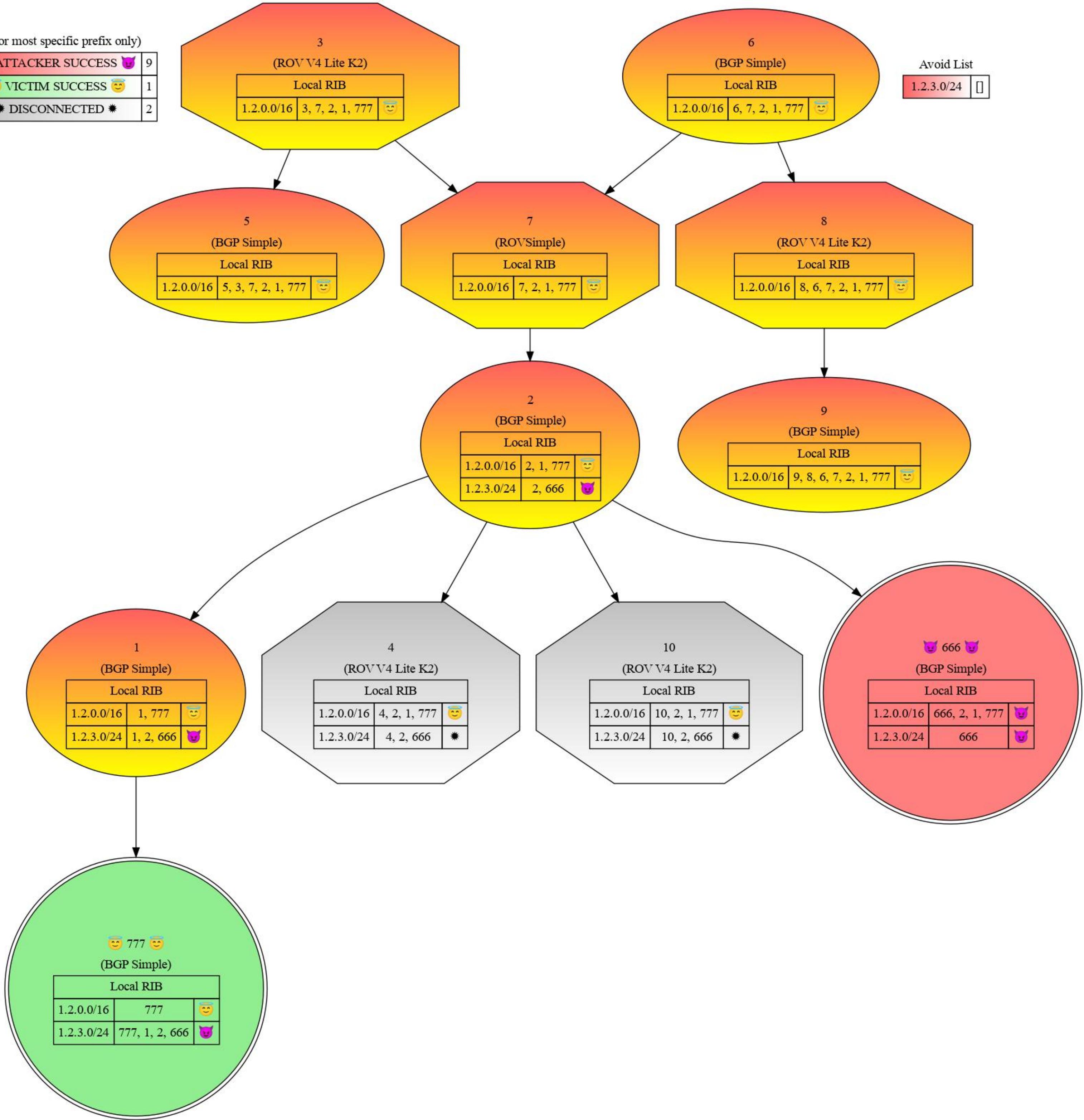
1.2.0.0/16	777	
1.2.3.0/24	777, 1, 2, 666	

Avoid List

1.2.3.0/24	[ ]
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(For most specific prefix only)

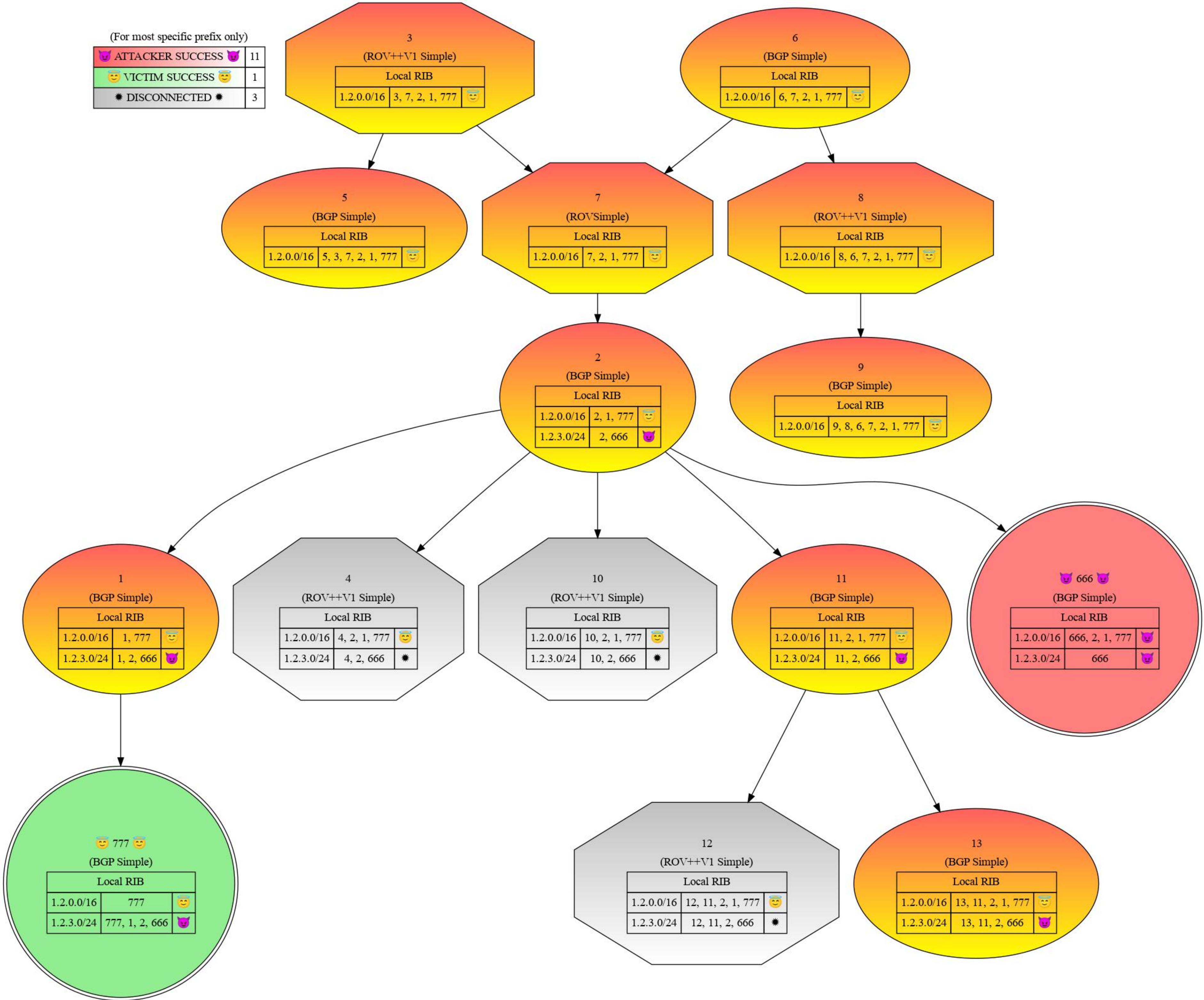
ATTACKER SUCCESS	9
VICTIM SUCCESS	1
DISCONNECTED	2



(128 Guess)  
Subprefix Hijack with V4 Lite k=2  
Traceback for 1.2.3.0/24

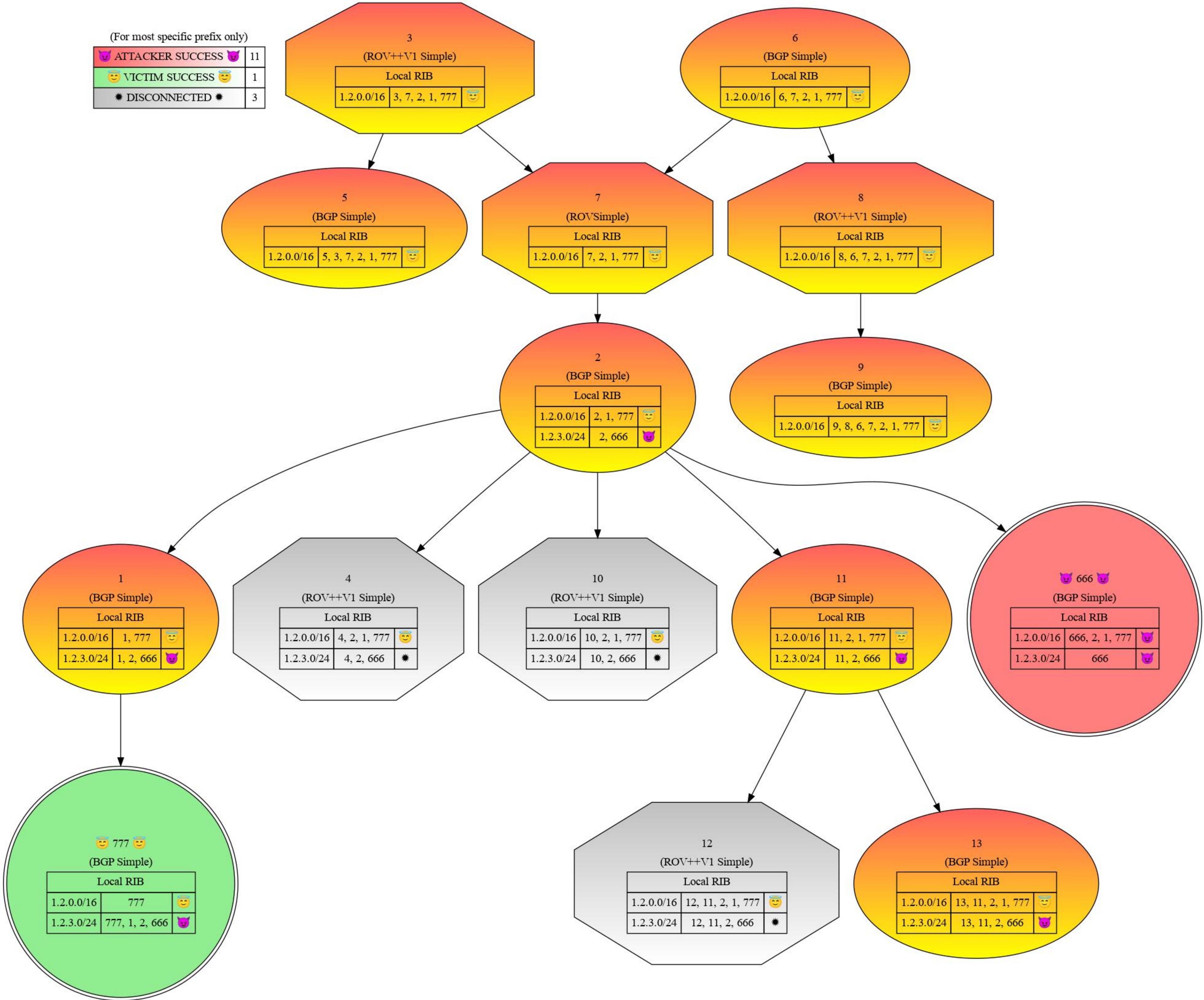
(For most specific prefix only)

ATTACKER SUCCESS 😺	11
VICTIM SUCCESS 😊	1
* DISCONNECTED *	3



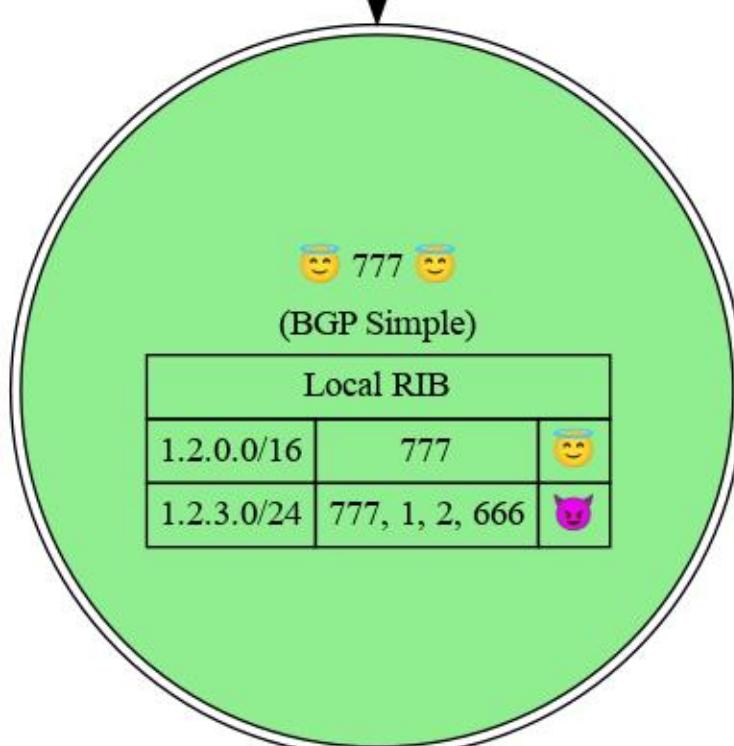
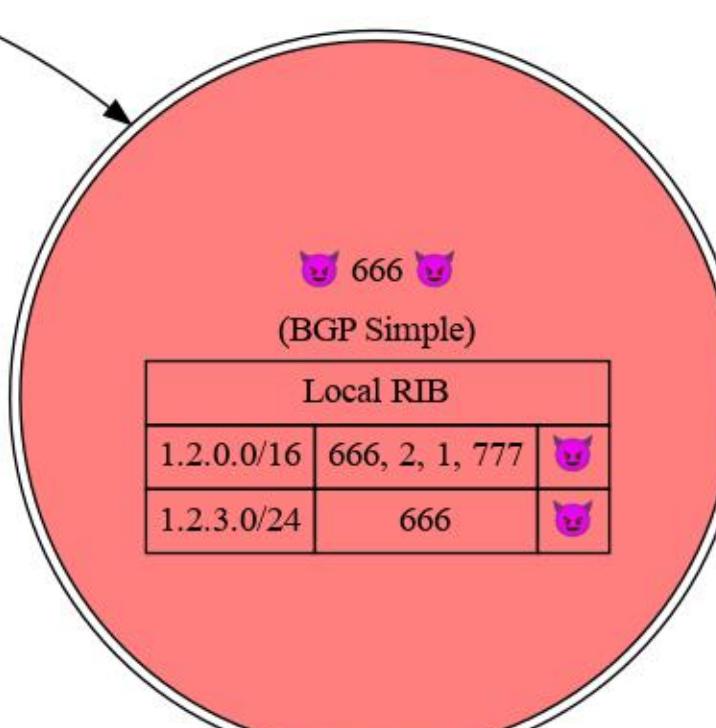
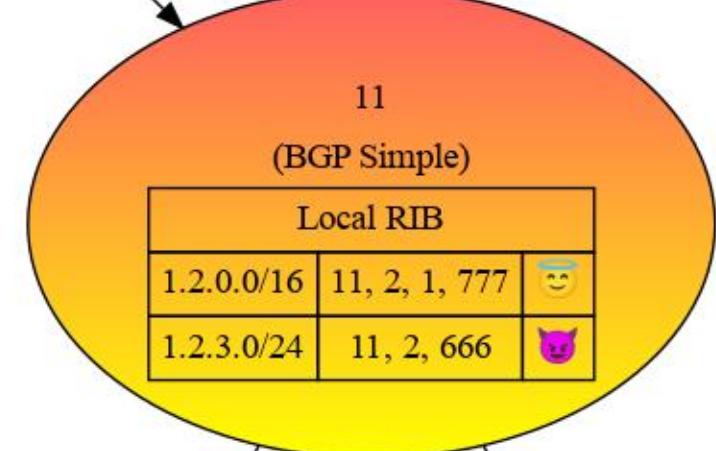
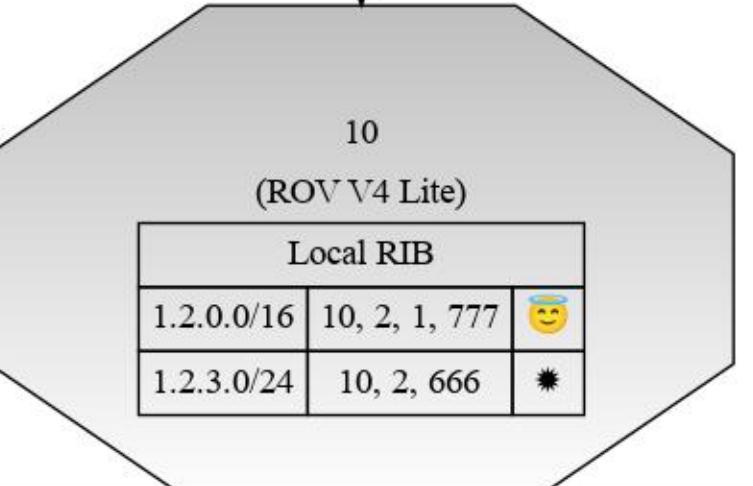
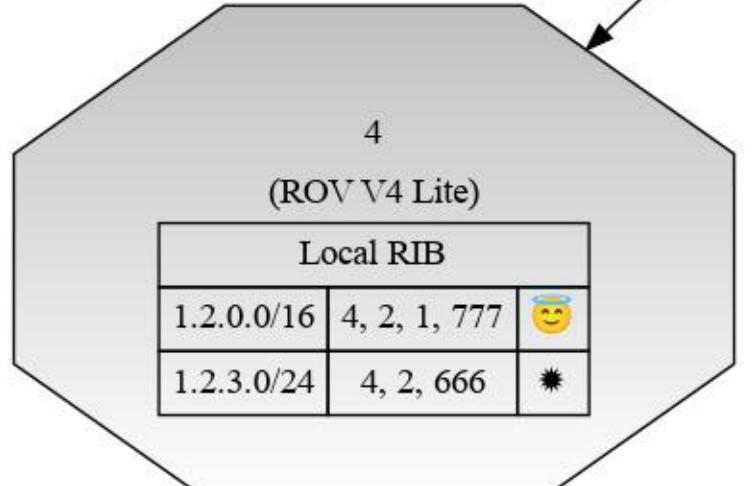
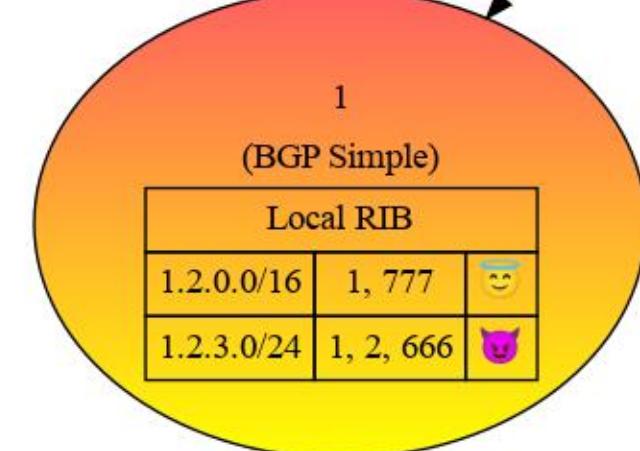
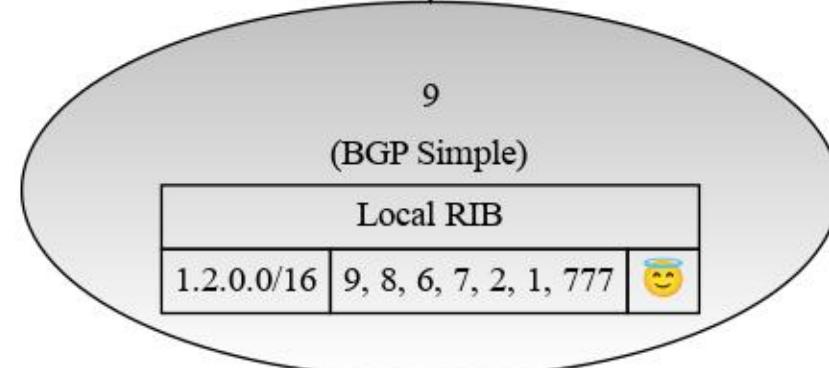
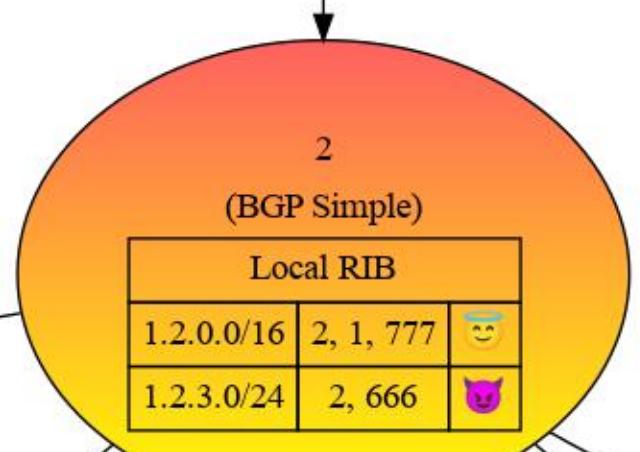
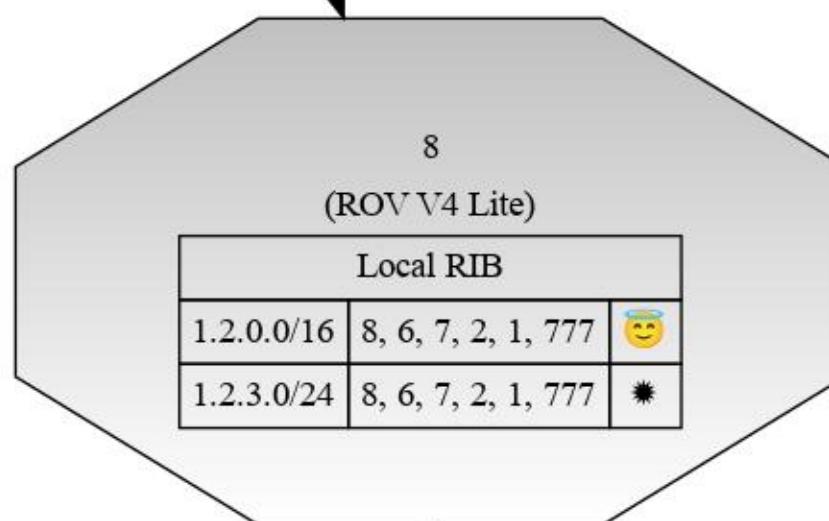
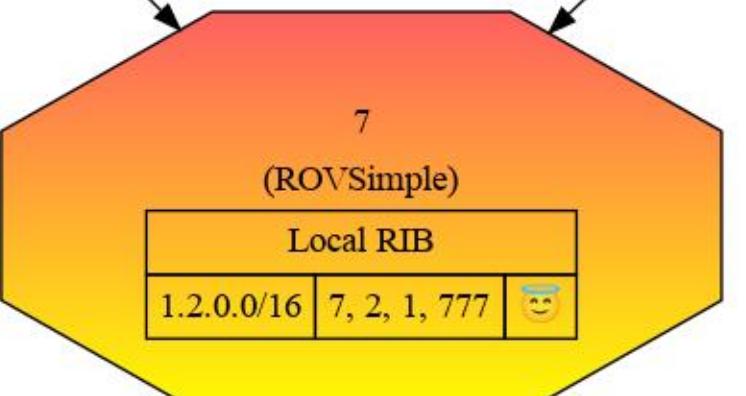
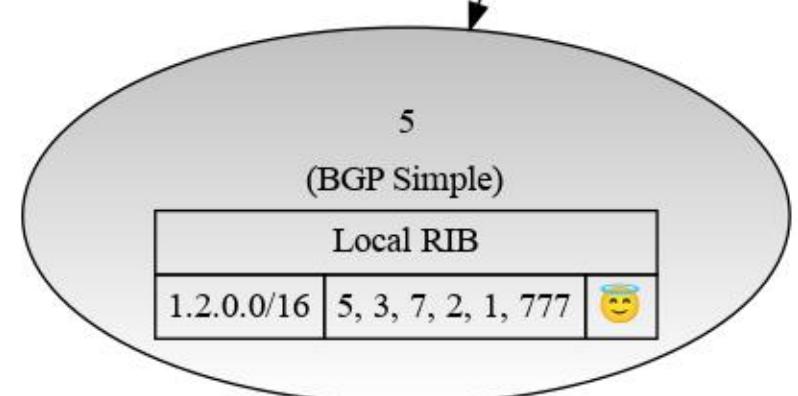
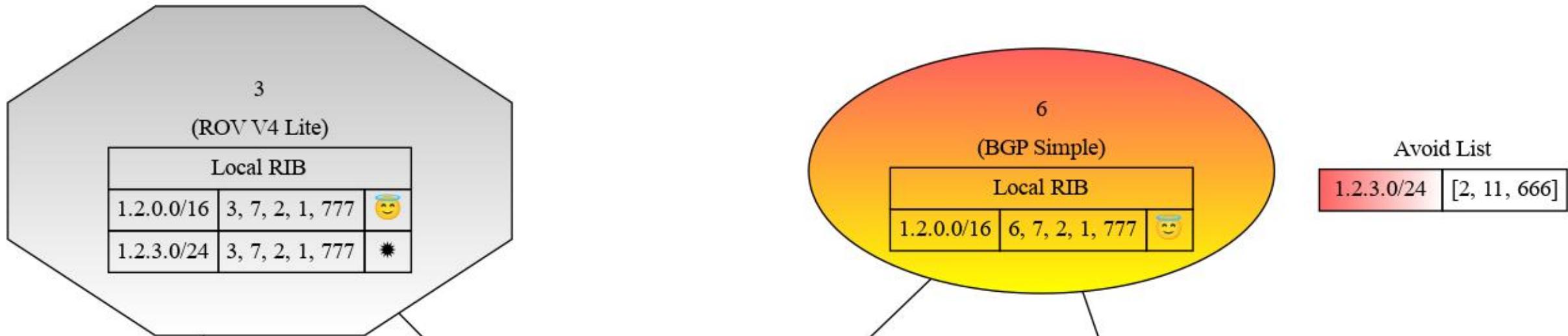
(For most specific prefix only)

ATTACKER SUCCESS 😺	11
VICTIM SUCCESS 😊	1
* DISCONNECTED *	3



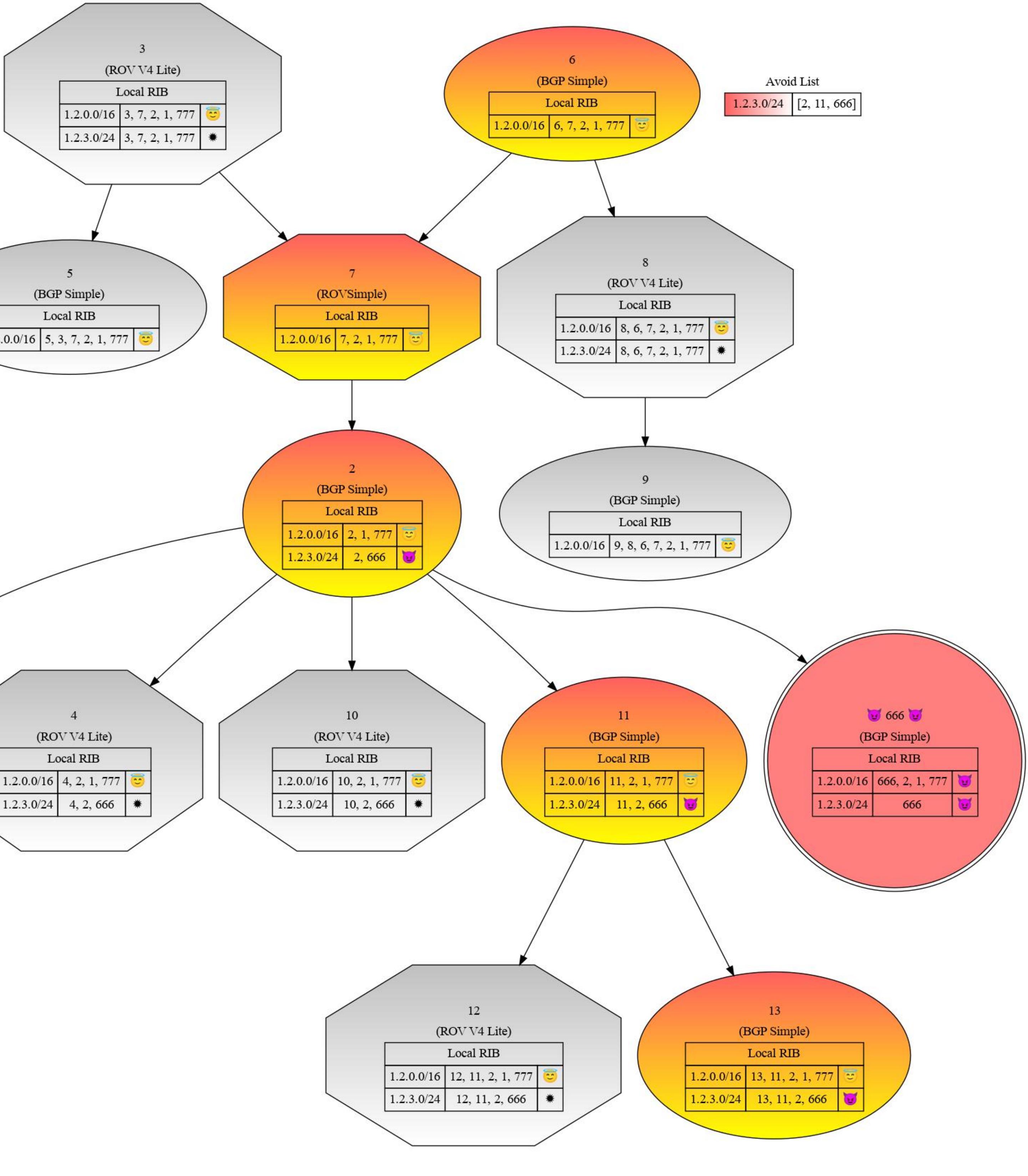
(For most specific prefix only)

ATTACKER SUCCESS	7
VICTIM SUCCESS	1
DISCONNECTED	7



(For most specific prefix only)

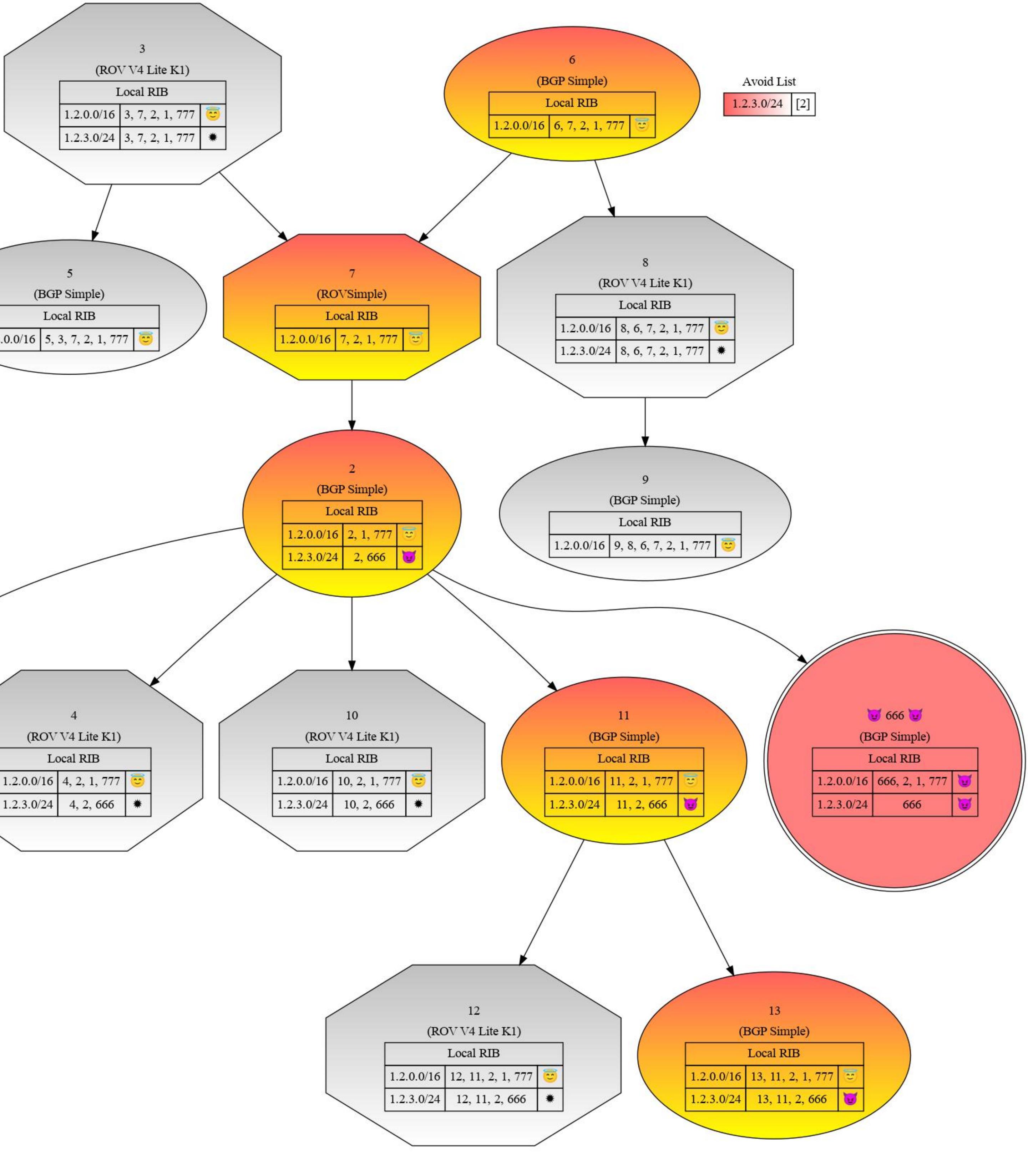
ATTACKER SUCCESS	7
VICTIM SUCCESS	1
DISCONNECTED	7



(130 Guess)  
Subprefix Hijack with V4 Lite  
Traceback for 1.2.3.0/24

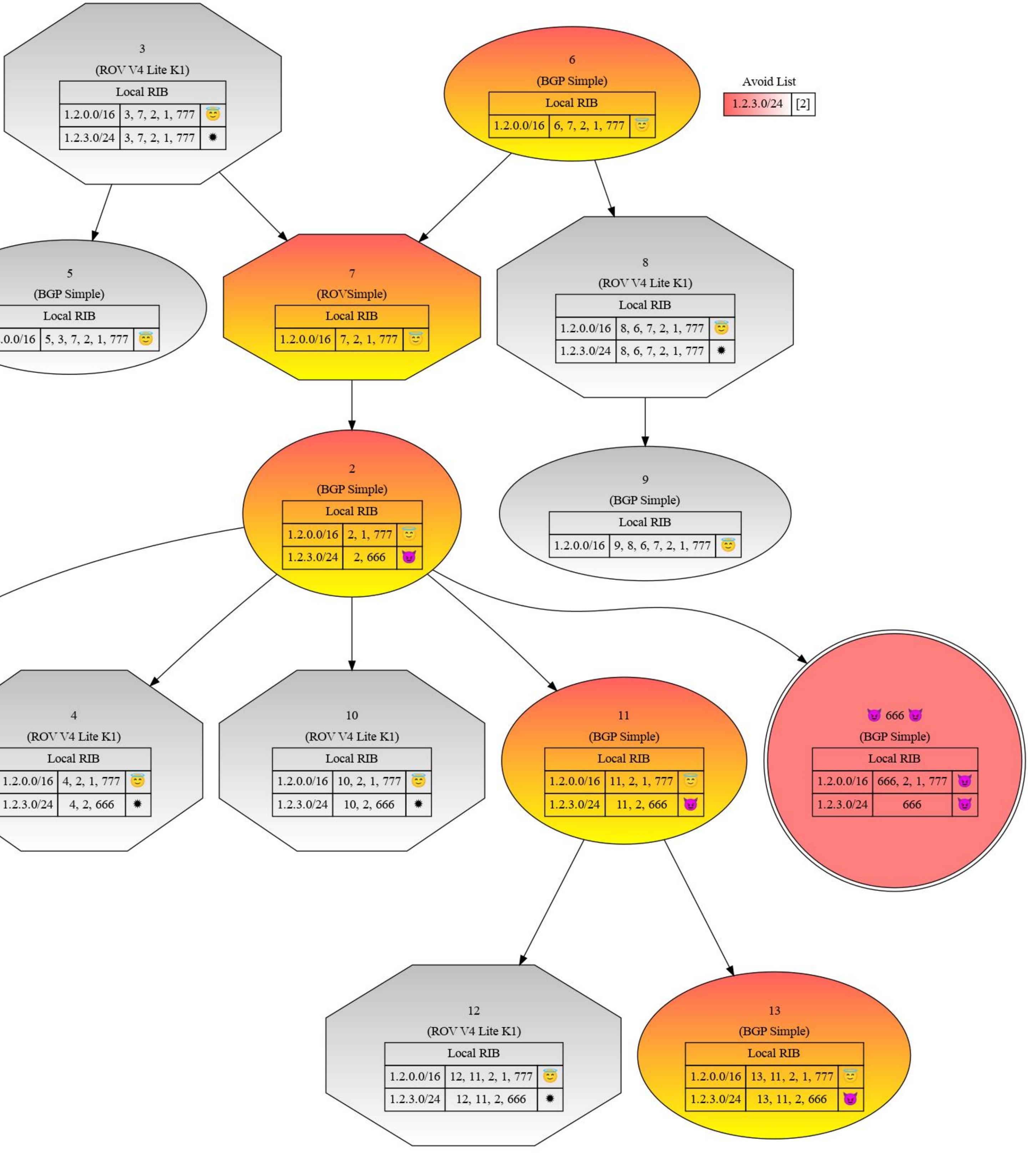
(For most specific prefix only)

ATTACKER SUCCESS	7
VICTIM SUCCESS	1
DISCONNECTED	7



(For most specific prefix only)

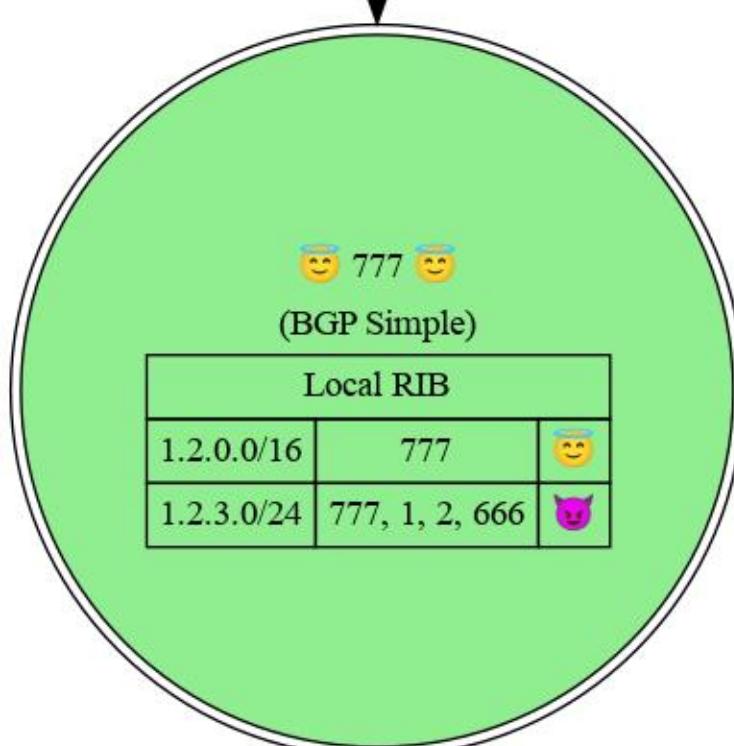
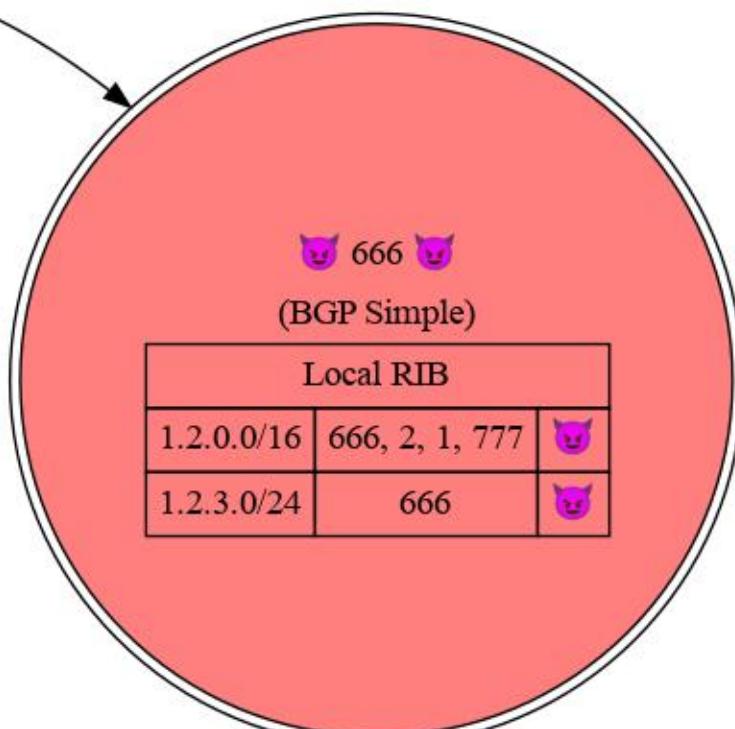
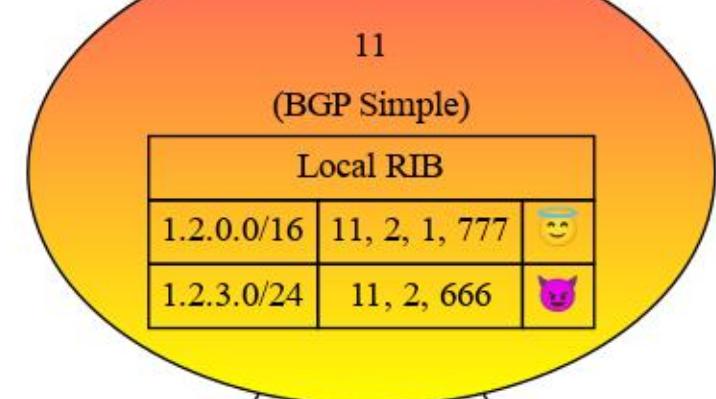
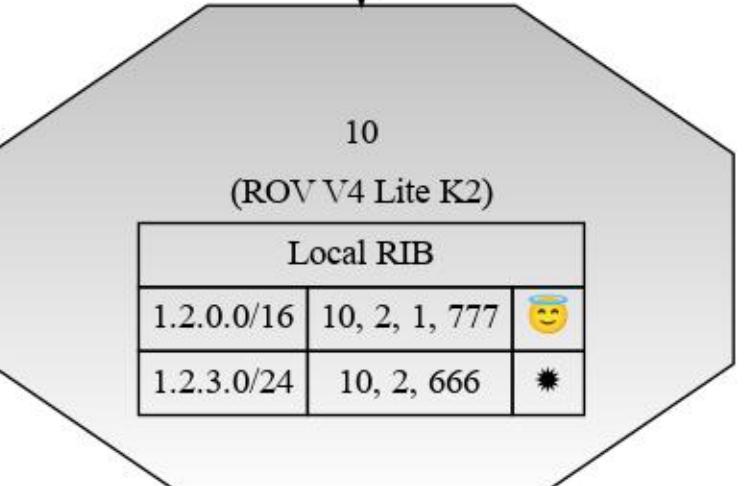
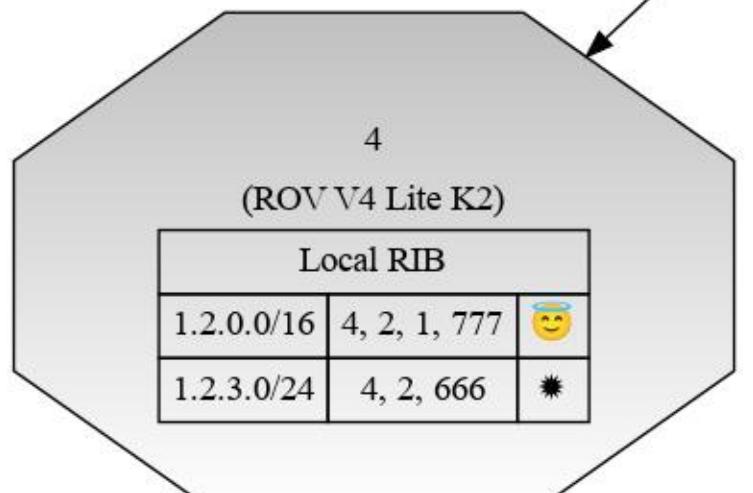
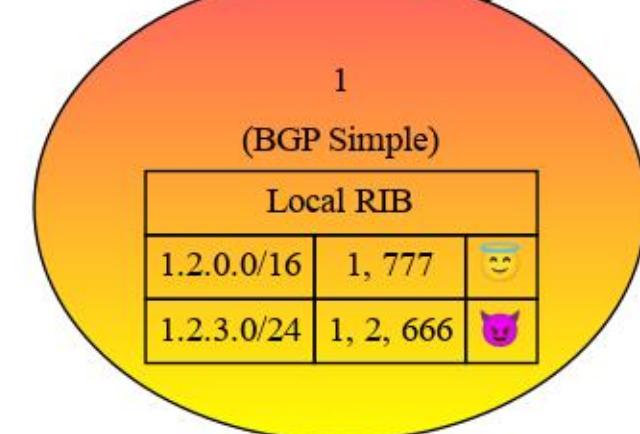
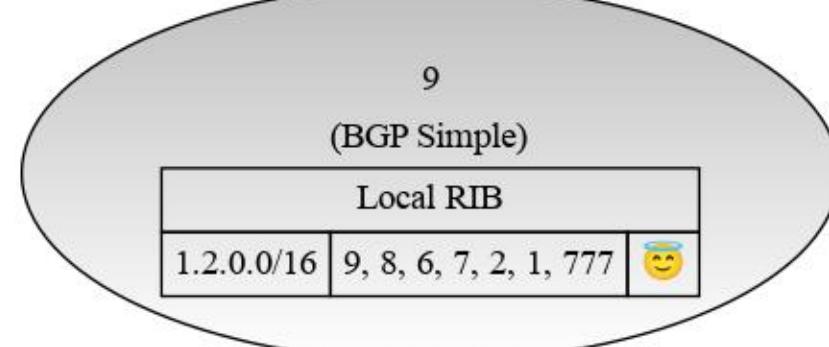
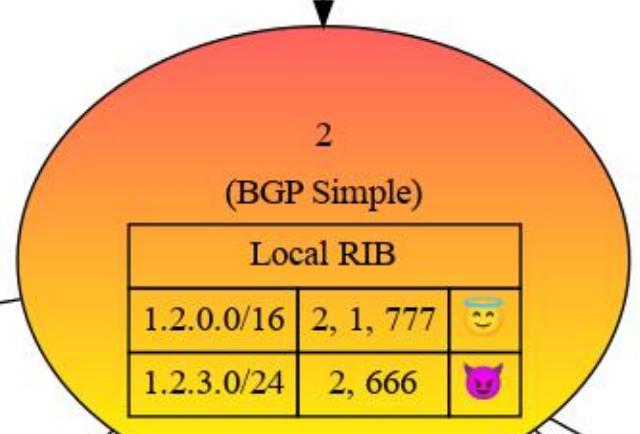
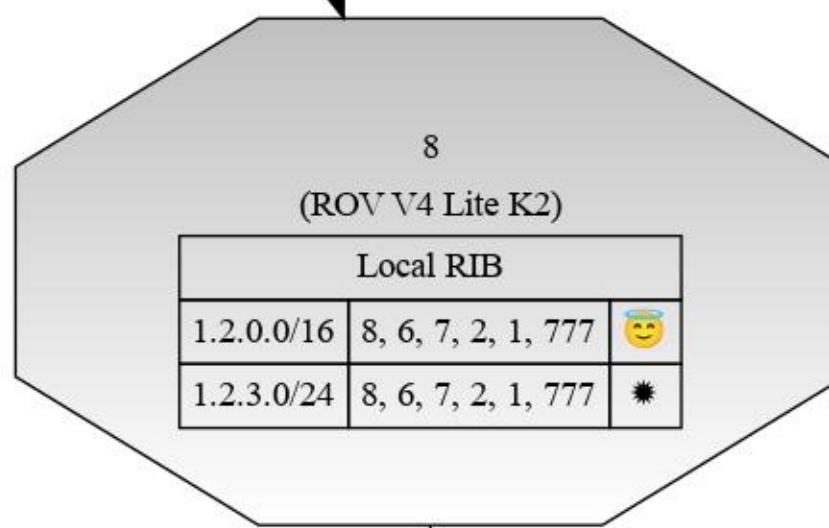
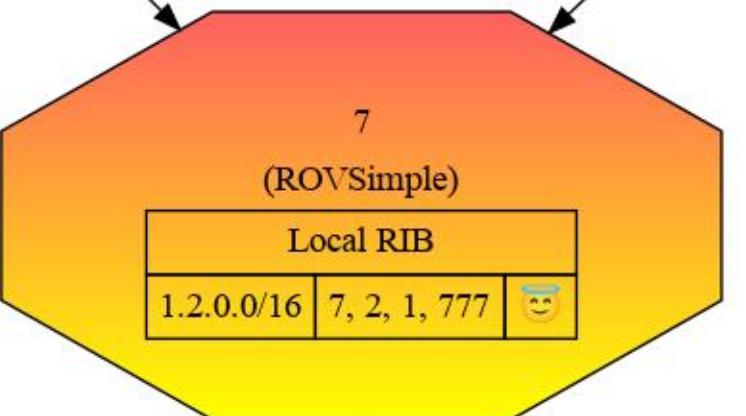
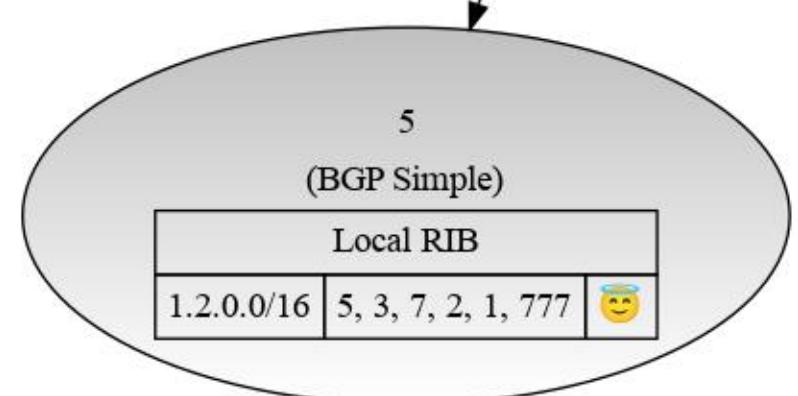
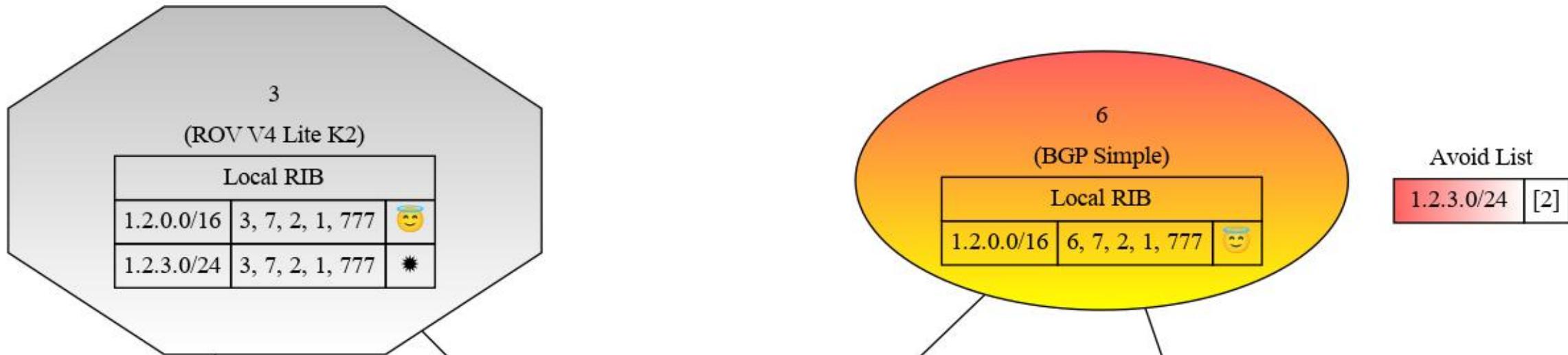
ATTACKER SUCCESS	7
VICTIM SUCCESS	1
DISCONNECTED	7



(131 Guess)  
Subprefix Hijack with V4 Lite k=1  
Traceback for 1.2.3.0/24

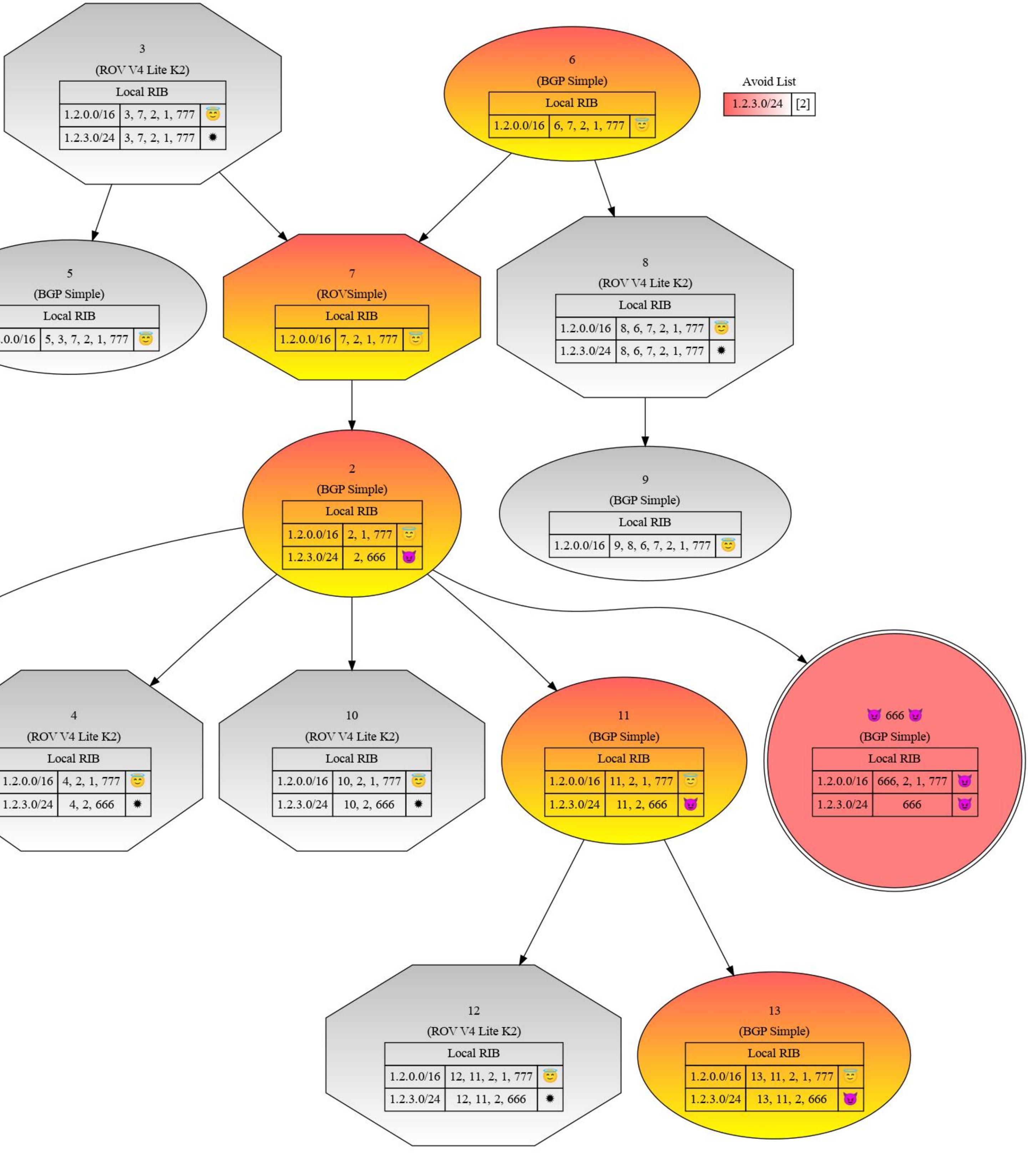
(For most specific prefix only)

ATTACKER SUCCESS	7
VICTIM SUCCESS	1
DISCONNECTED	7



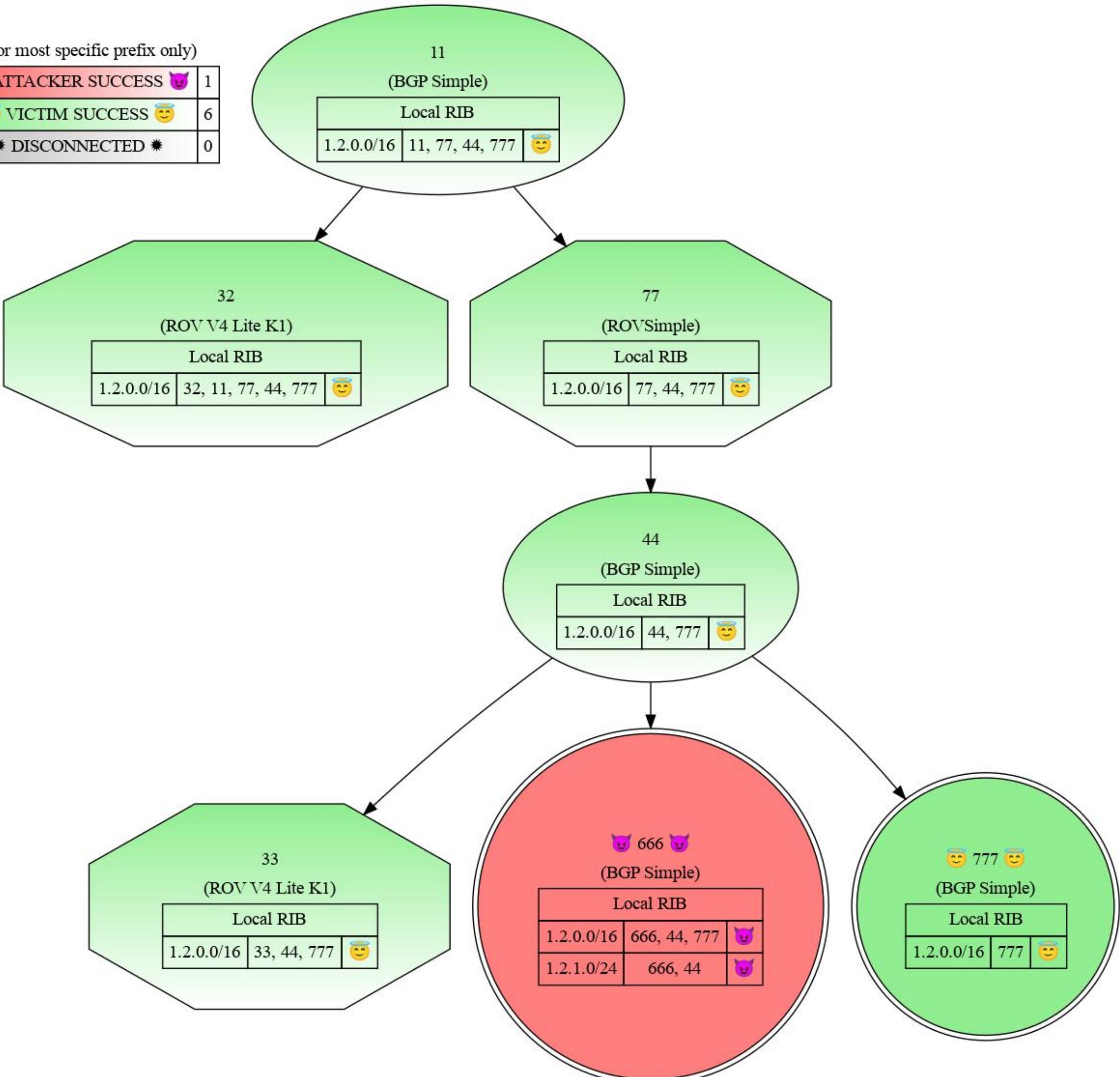
(For most specific prefix only)

ATTACKER SUCCESS	7
VICTIM SUCCESS	1
DISCONNECTED	7



(For most specific prefix only)

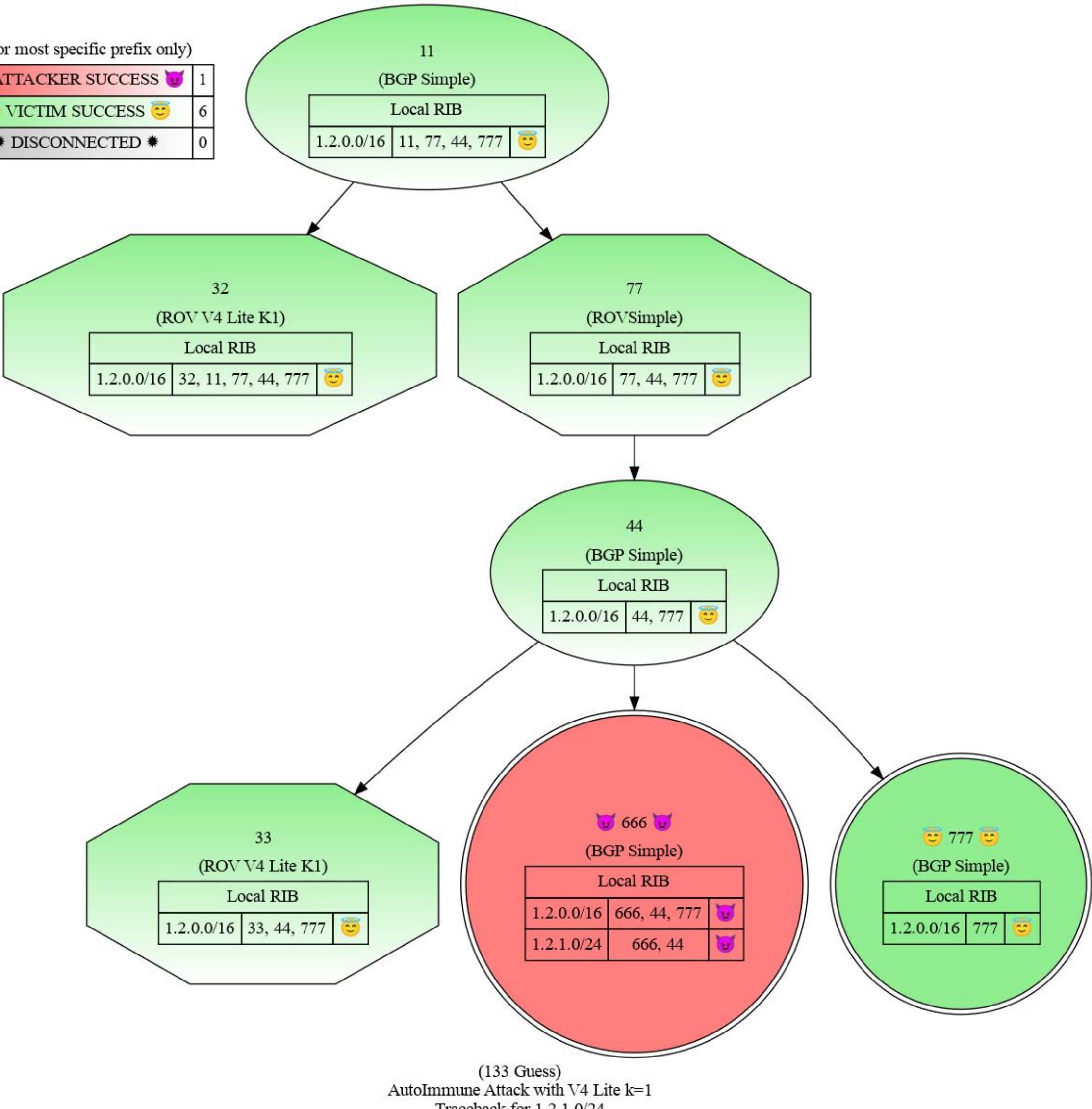
ATTACKER SUCCESS	1
VICTIM SUCCESS	6
DISCONNECTED	0



(133 Ground Truth)  
AutoImmune Attack with V4 Lite k=1  
Traceback for 1.2.1.0/24

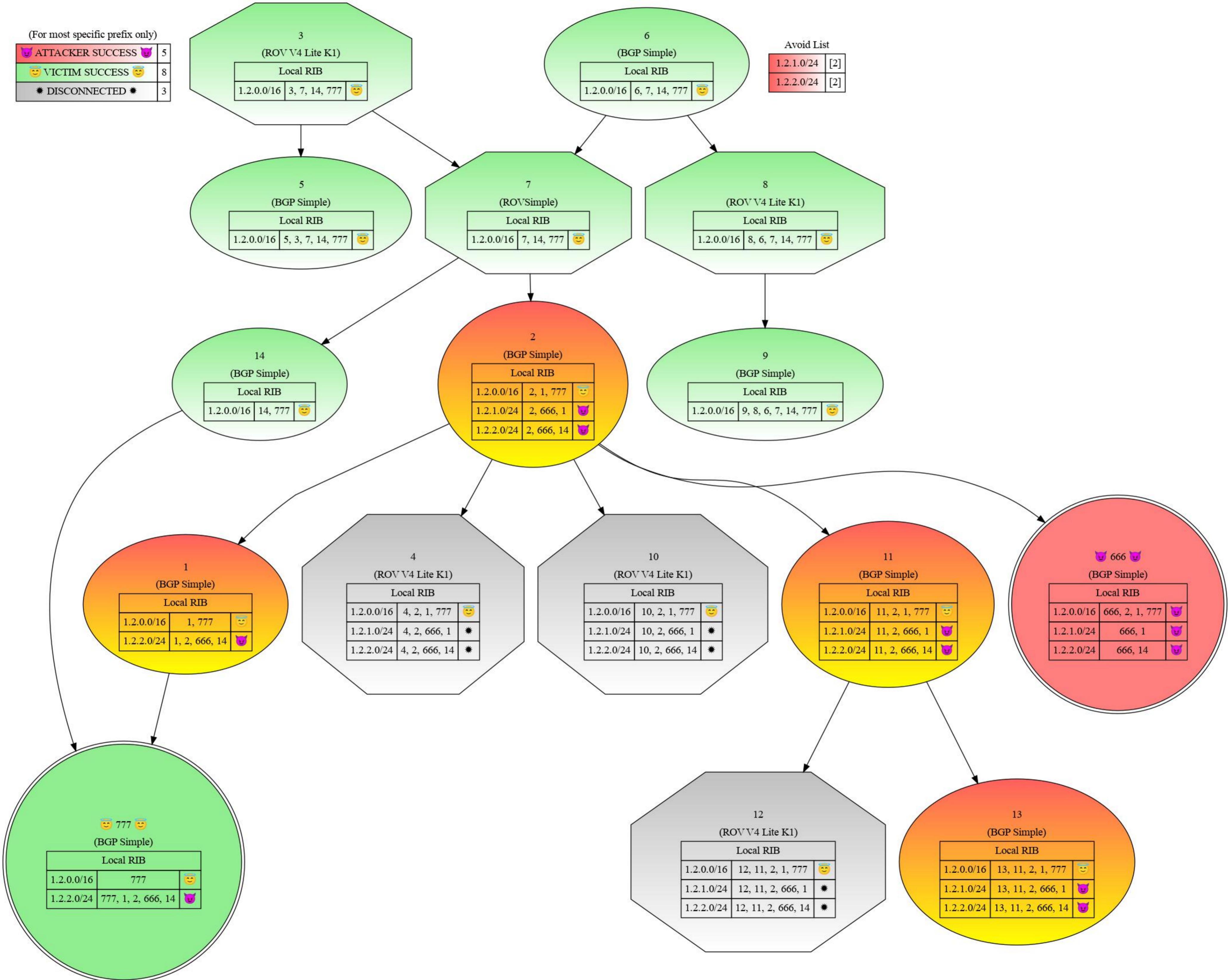
(For most specific prefix only)

ATTACKER SUCCESS	1
VICTIM SUCCESS	6
DISCONNECTED	0



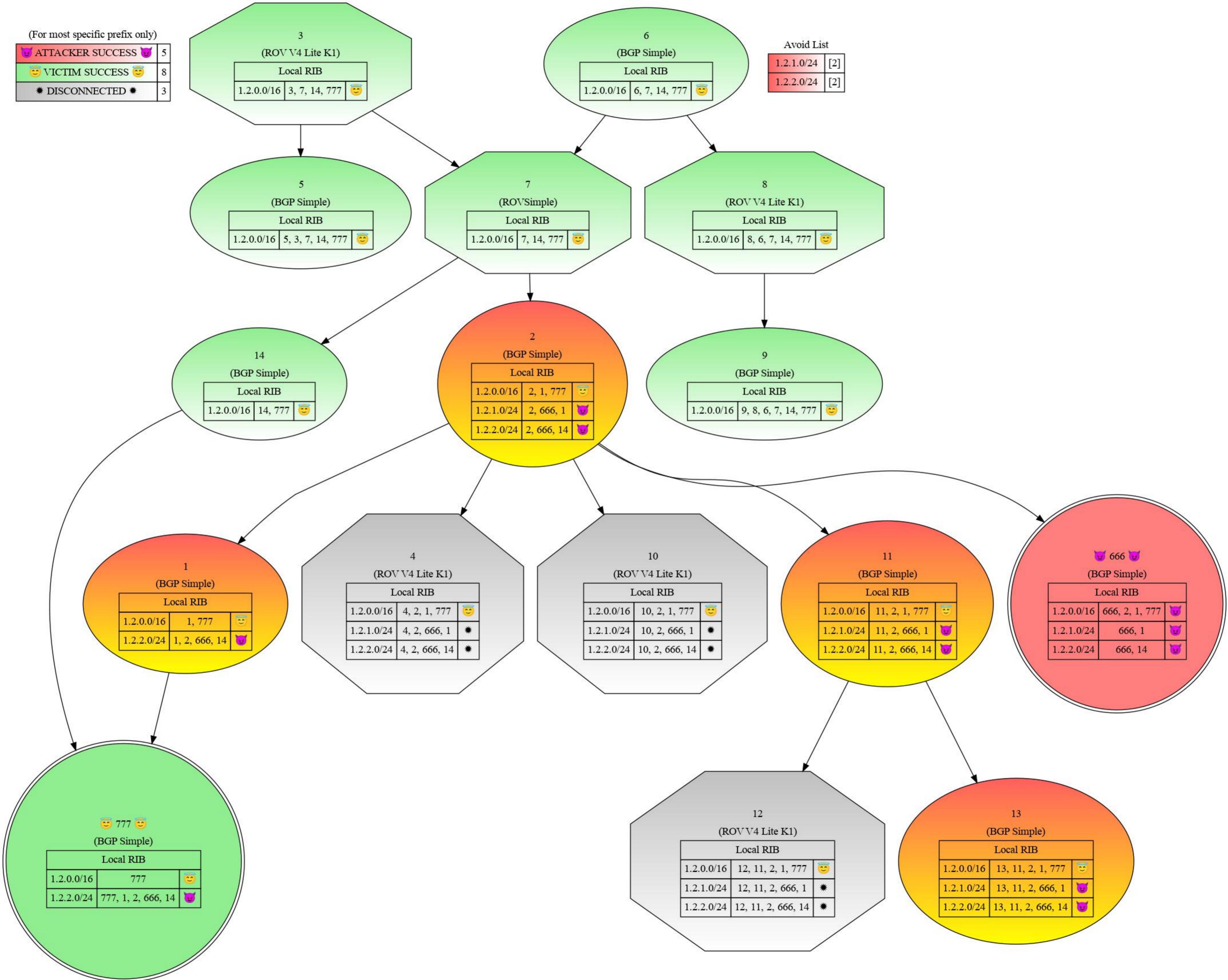
(For most specific prefix only)

	ATTACKER SUCCESS		5
	VICTIM SUCCESS		8
*	DISCONNECTED	*	3

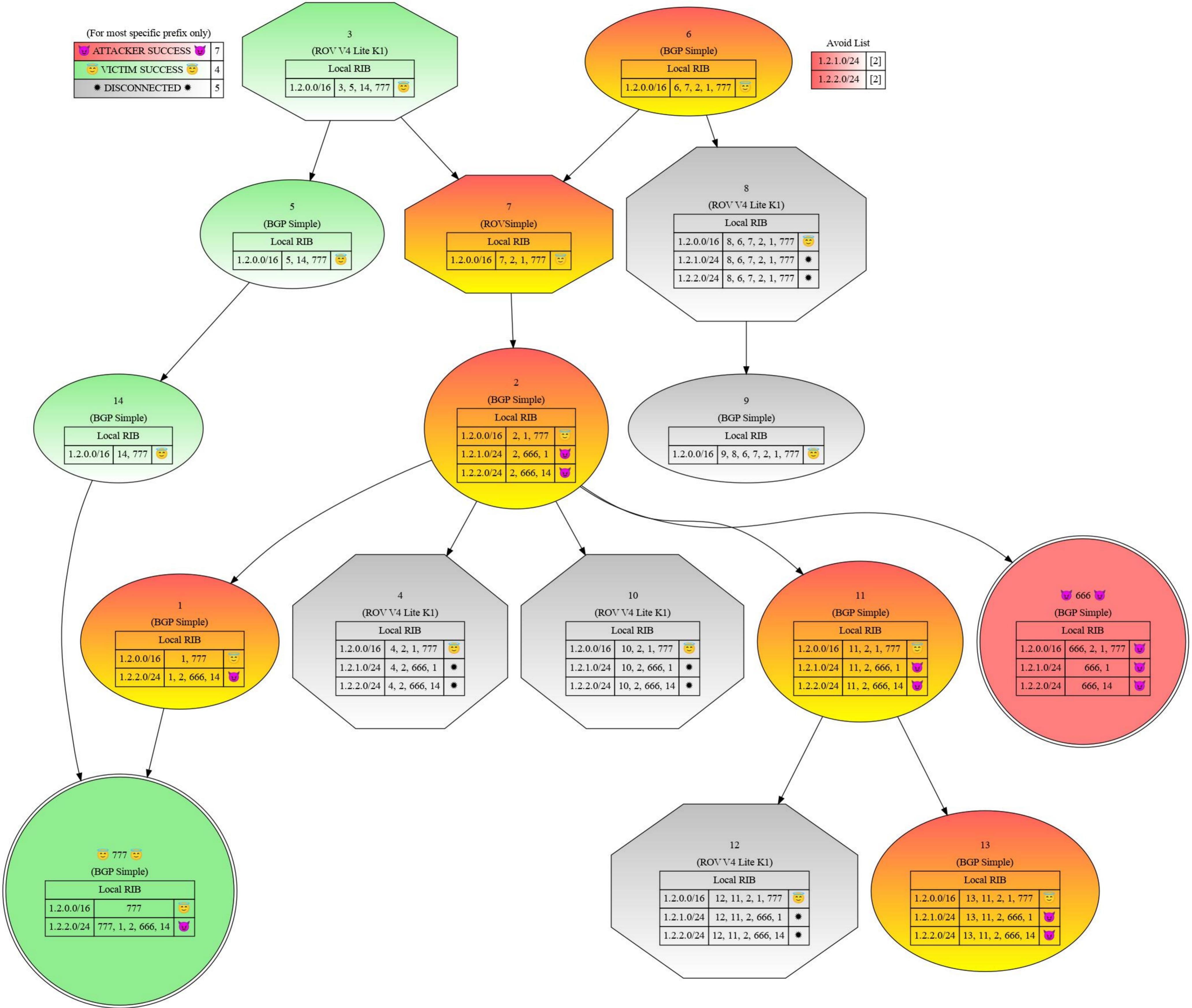


(For most specific prefix only)

ATTACKER SUCCESS	5
VICTIM SUCCESS	8
DISCONNECTED	3

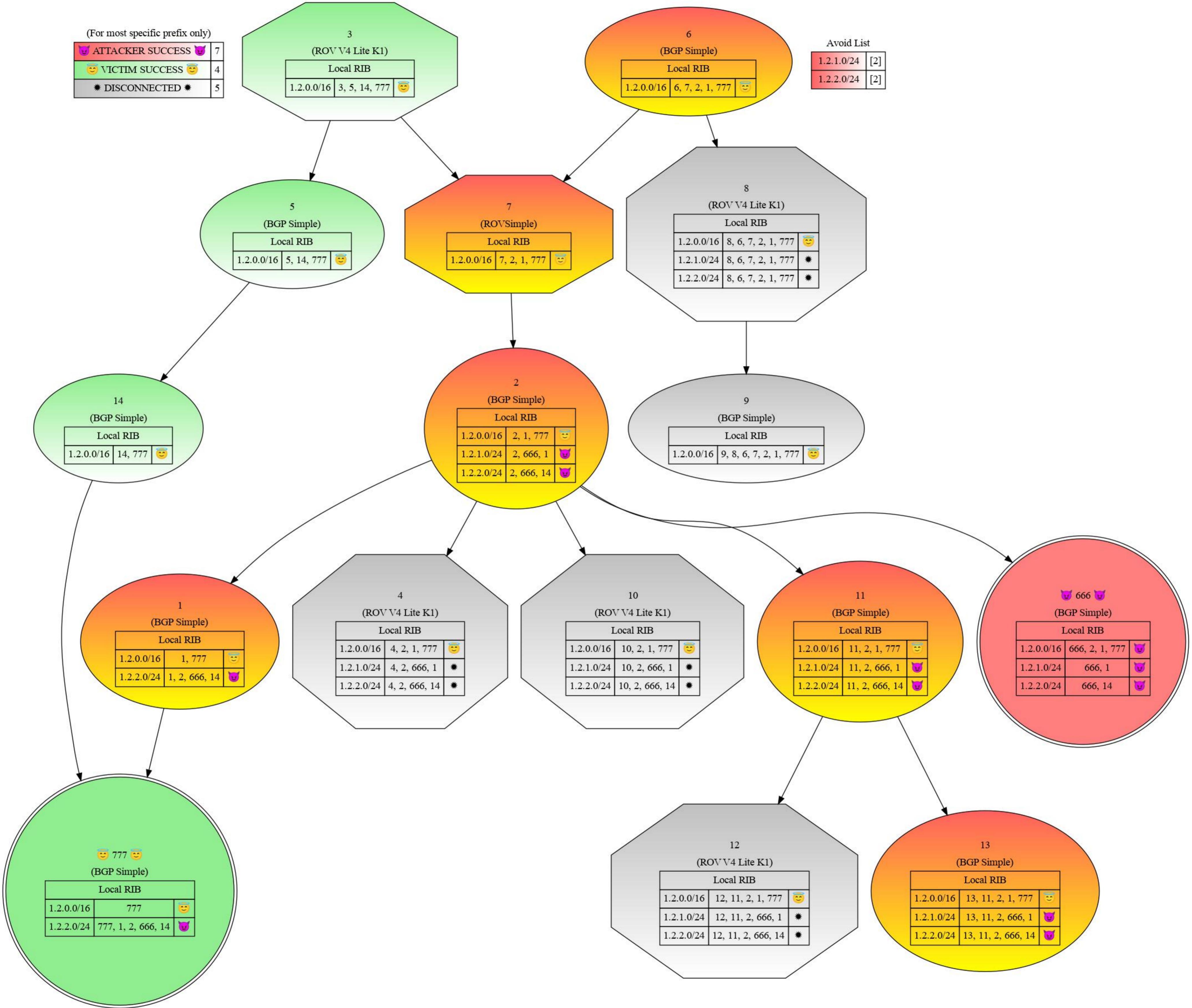


(For most specific prefix only)	
ATTACKER SUCCESS 😈	7
VICTIM SUCCESS 😊	4
DISCONNECTED *	5



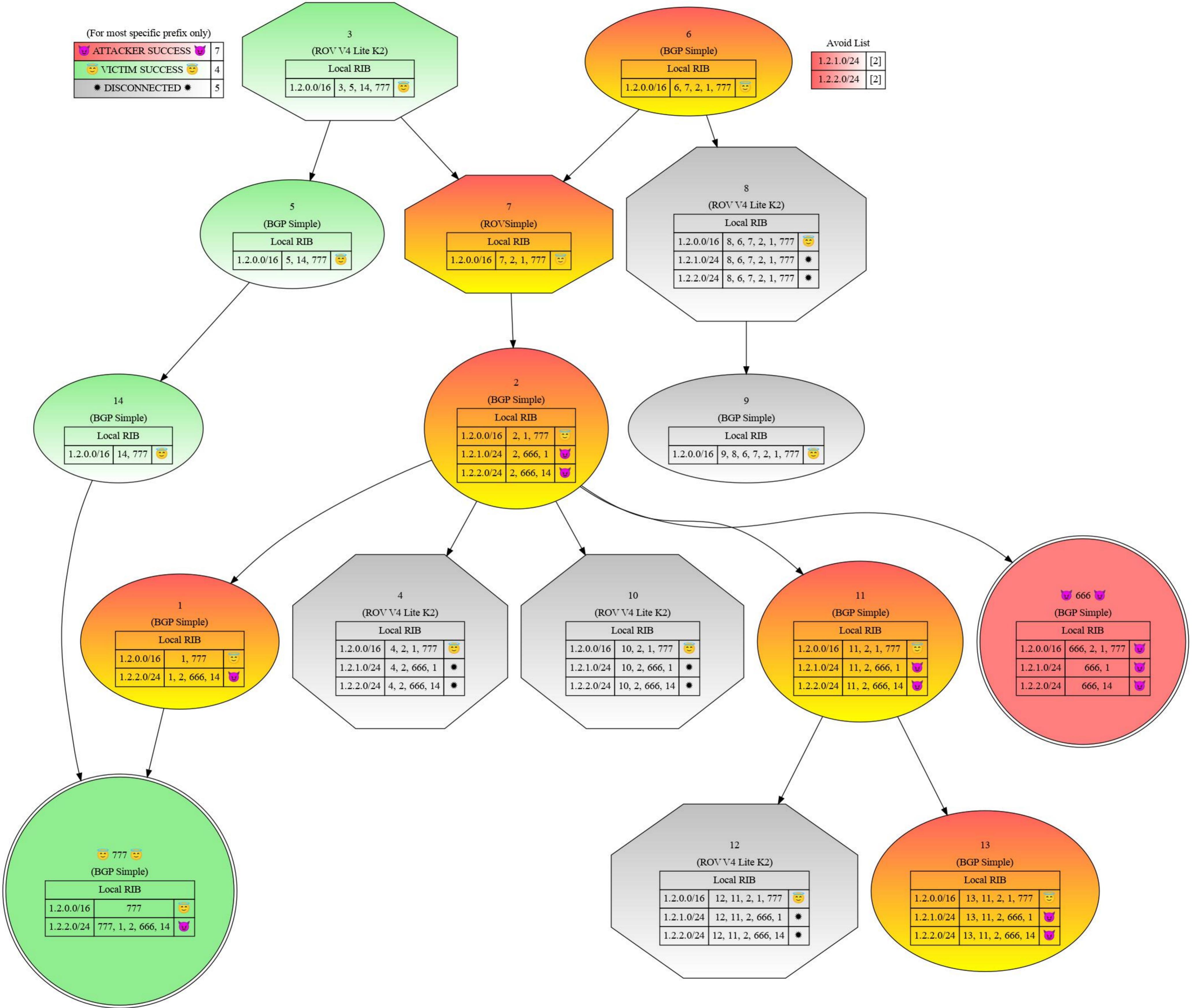
(For most specific prefix only)

	ATTACKER SUCCESS		7
	VICTIM SUCCESS		4
✳ DISCONNECTED ✳			5



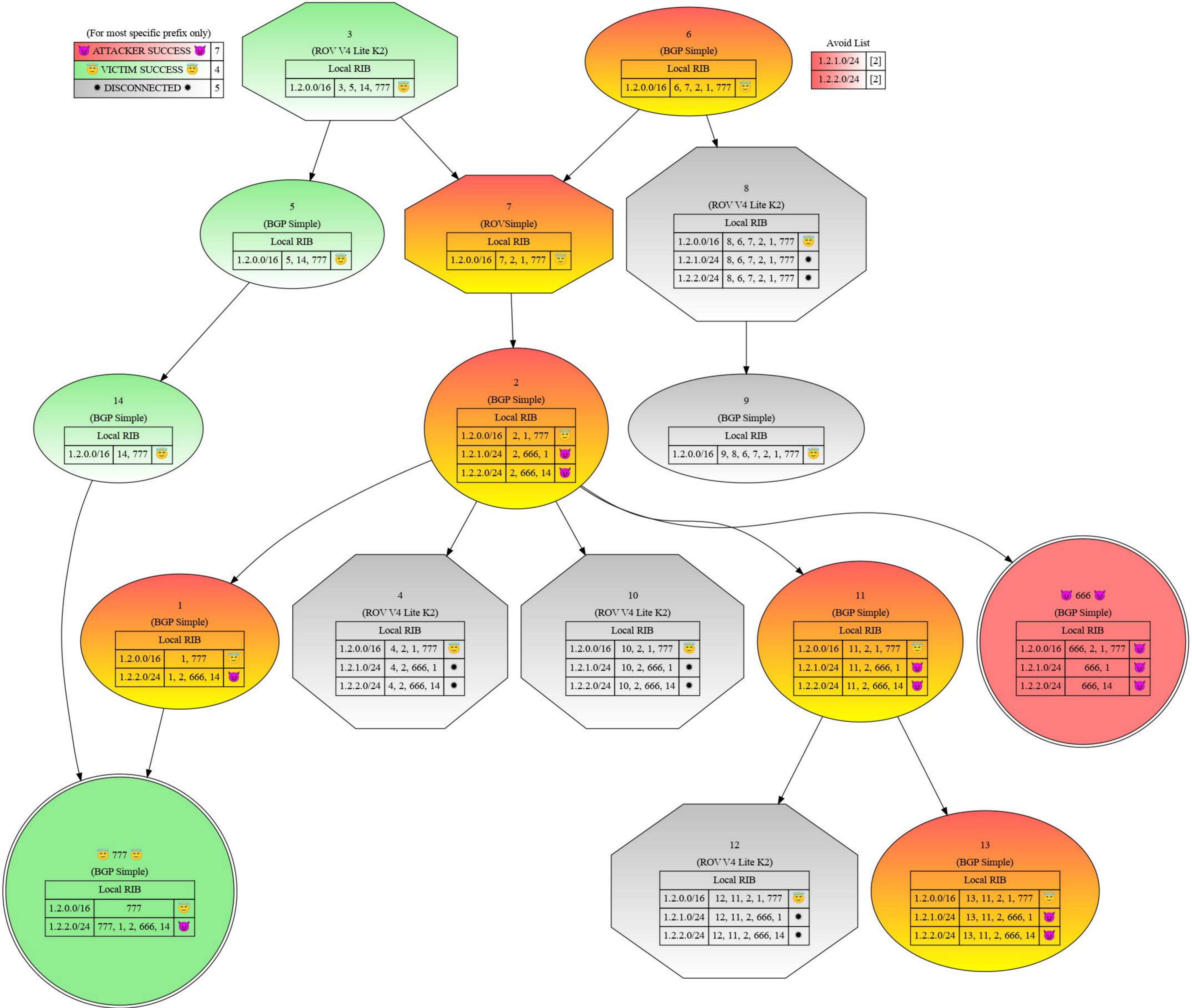
(For most specific prefix only)

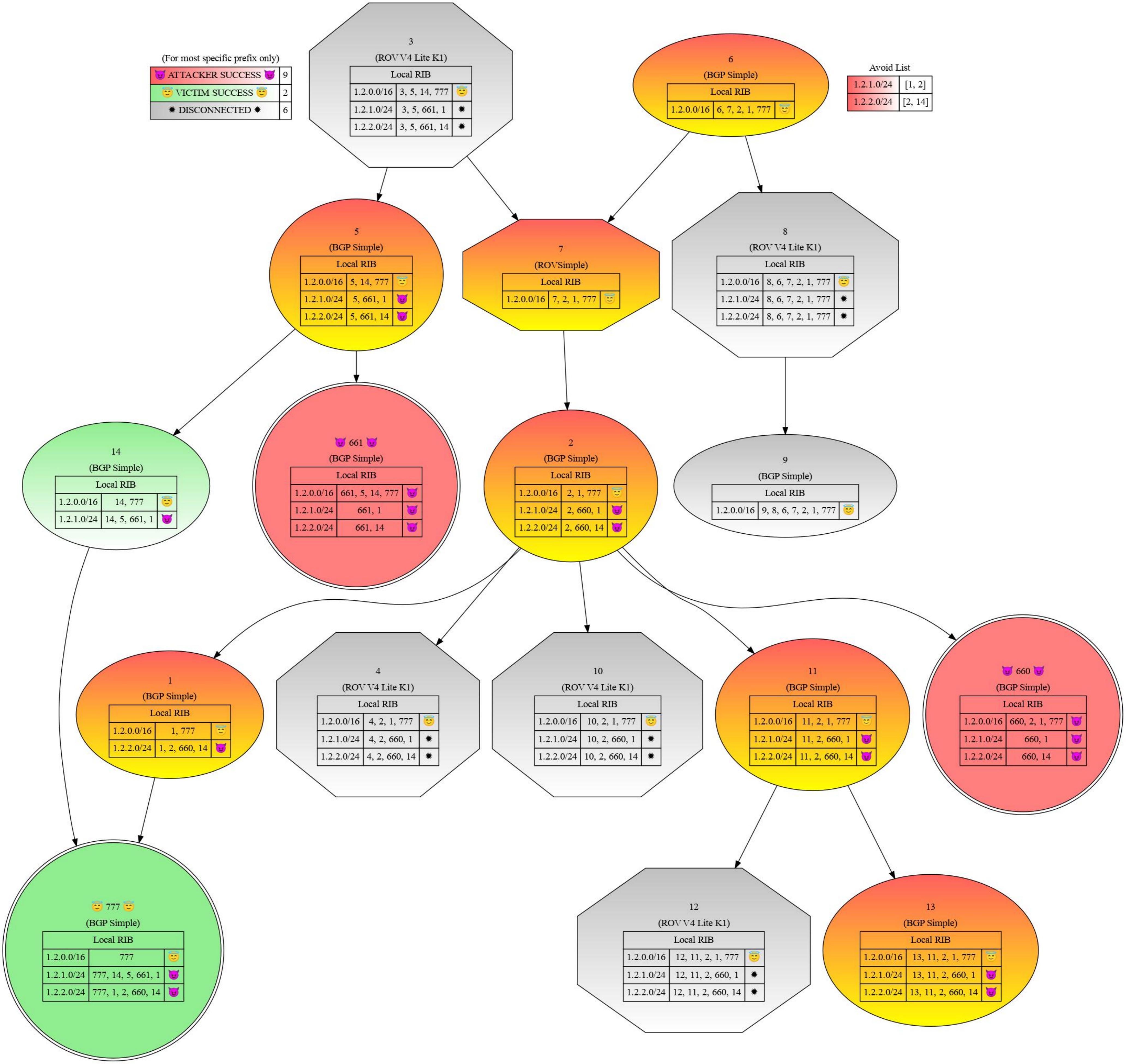
	ATTACKER SUCCESS		7
	VICTIM SUCCESS		4
✳ DISCONNECTED ✳			5

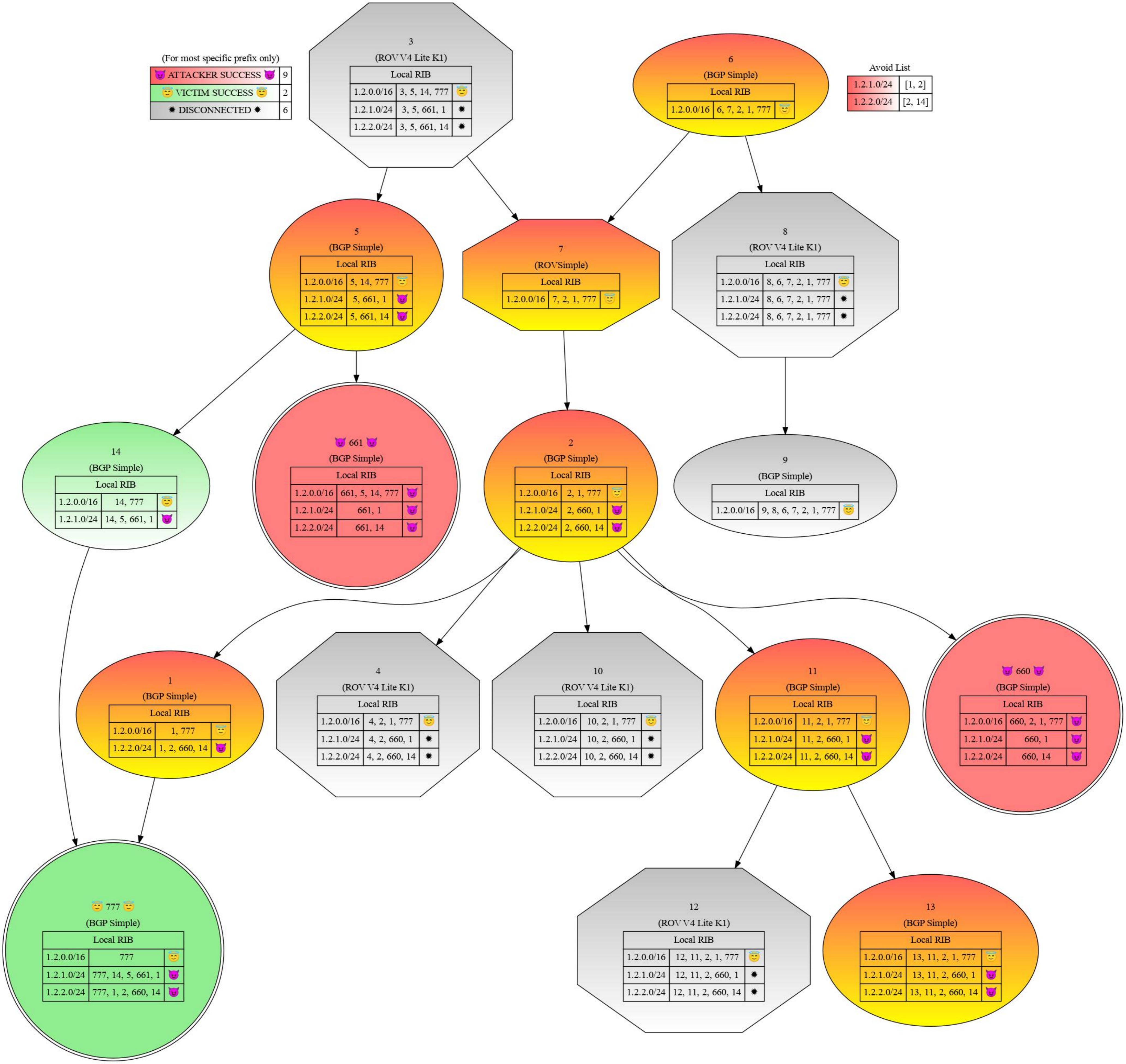


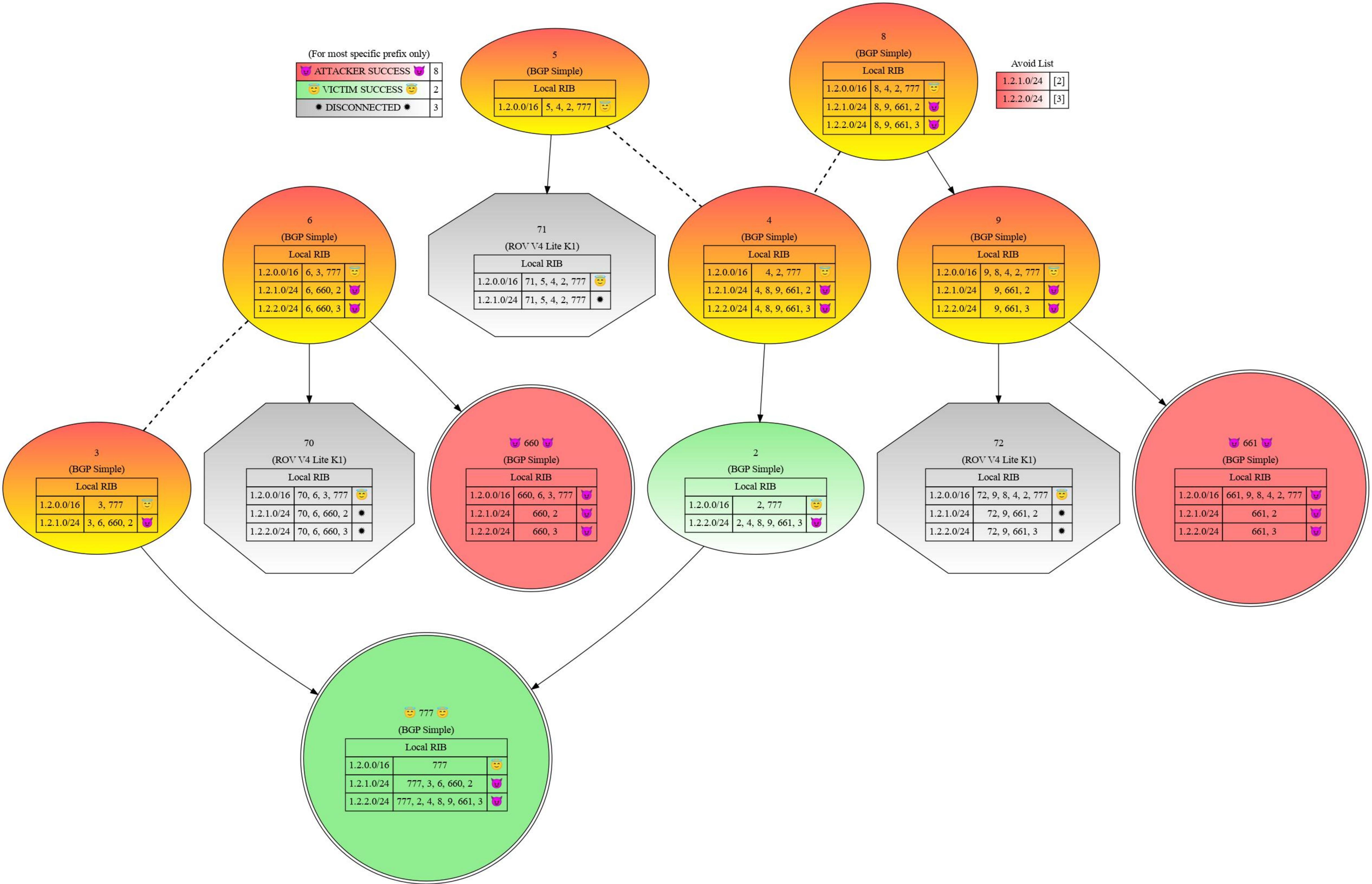
(For most specific prefix only)

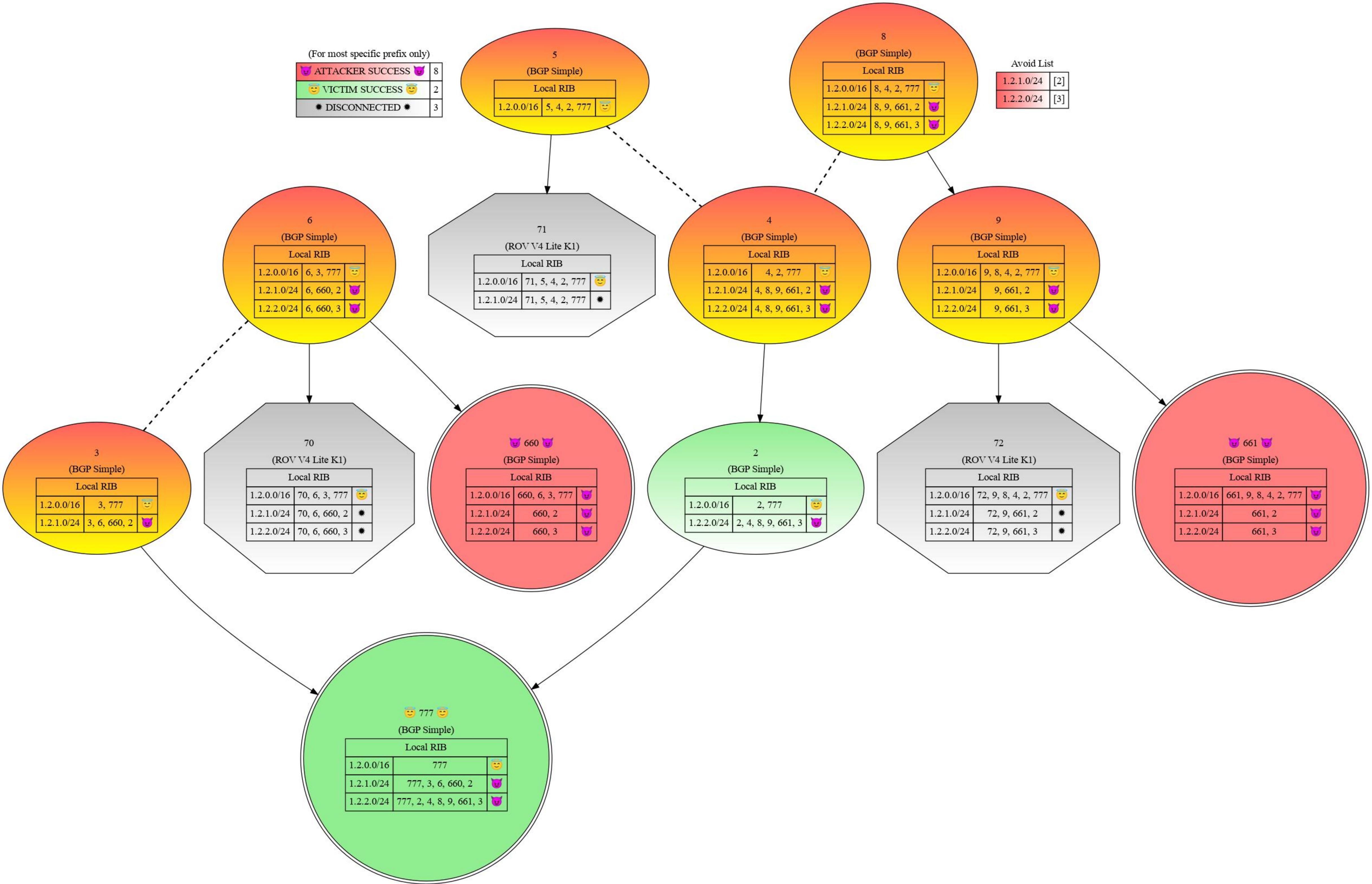
ATTACKER SUCCESS	7
VICTIM SUCCESS	4
DISCONNECTED	5



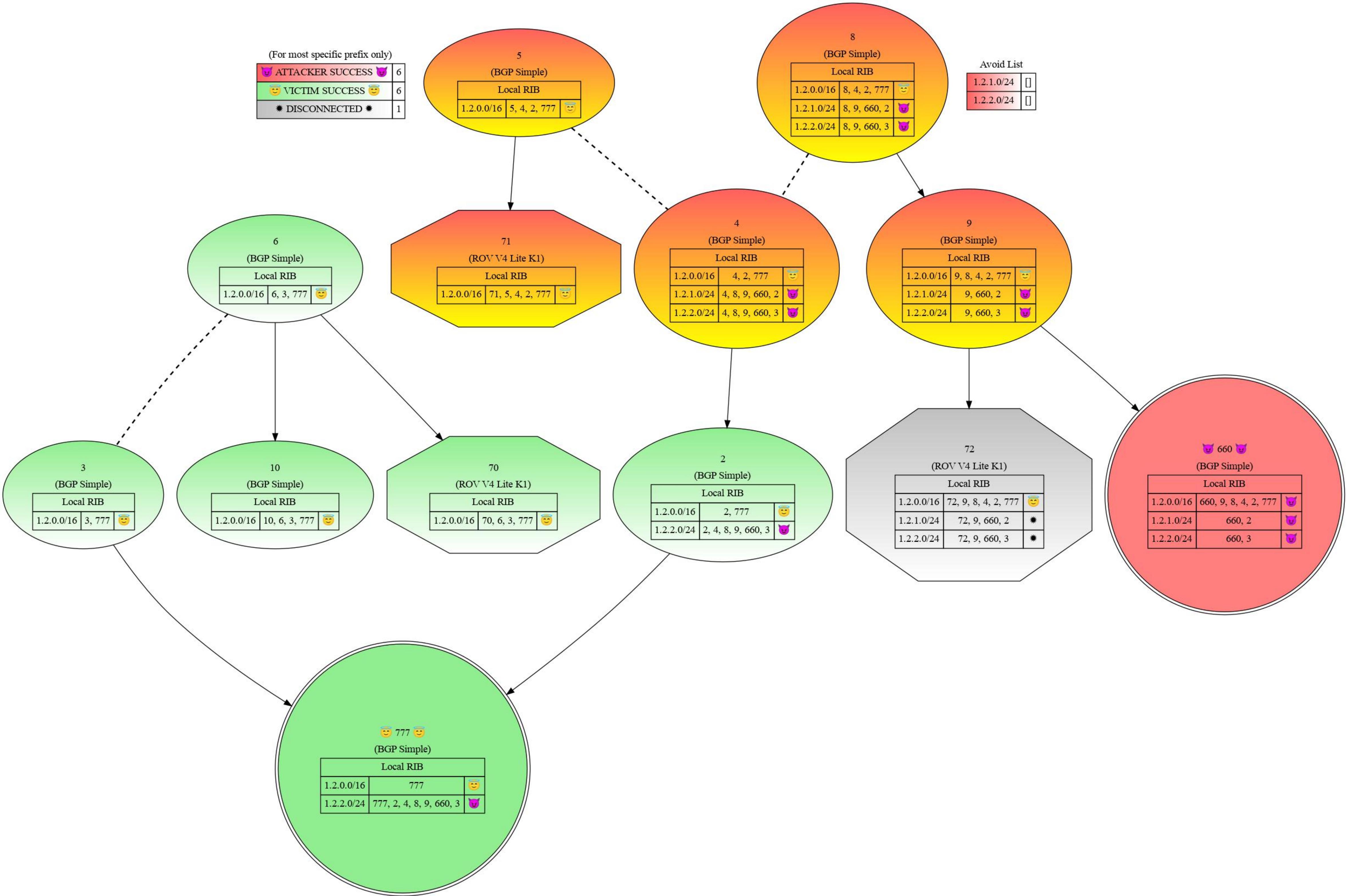


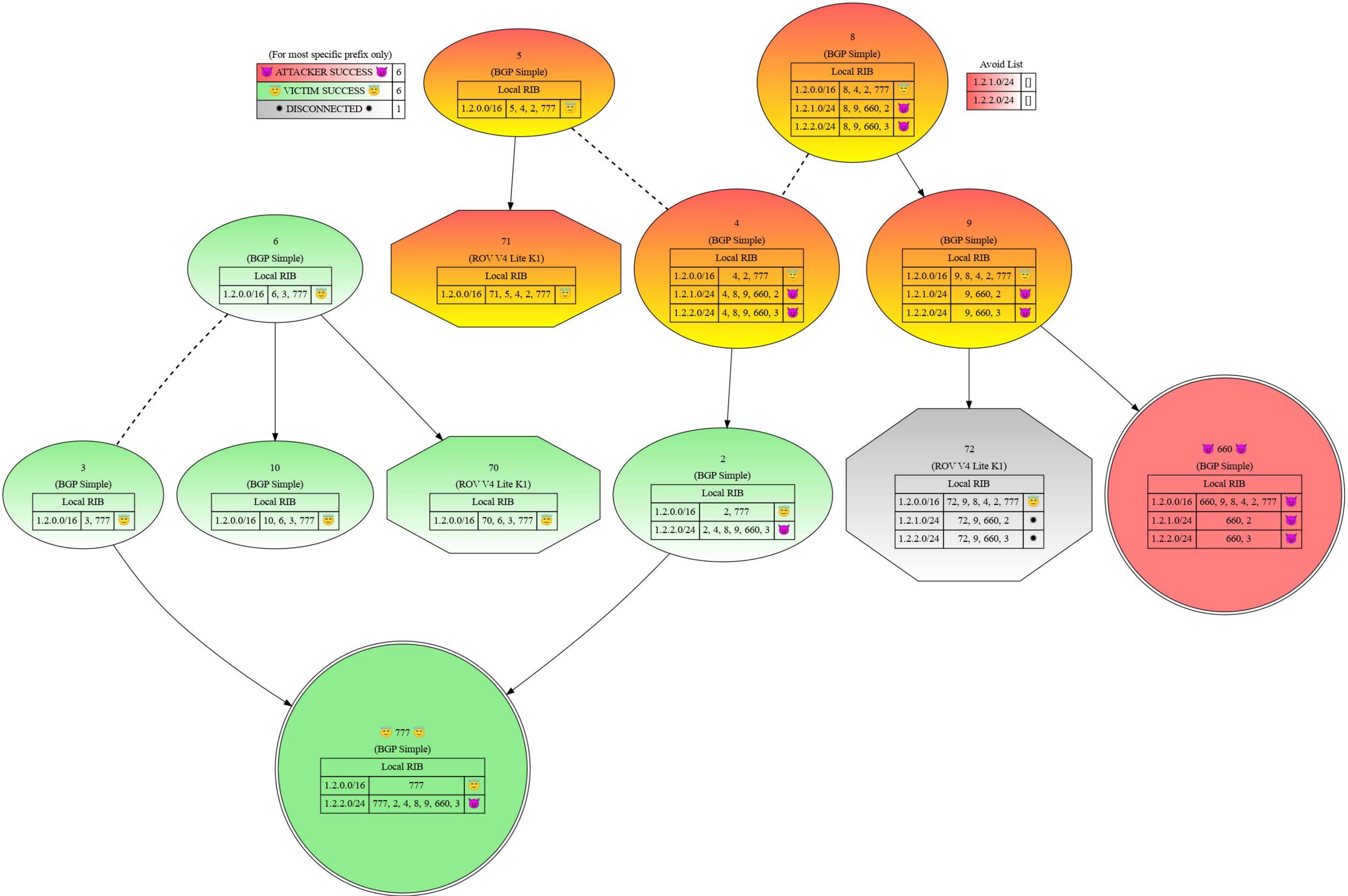


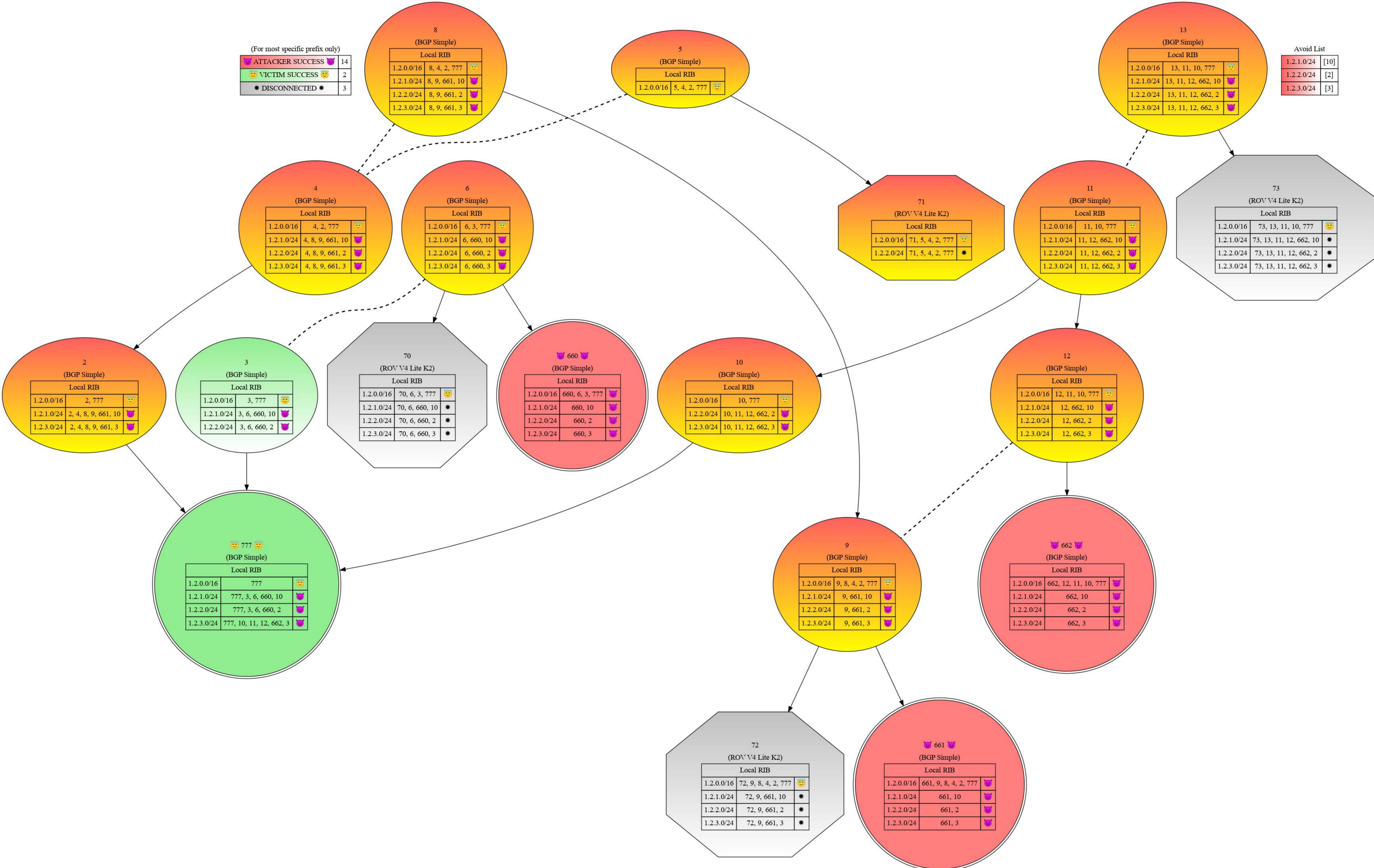


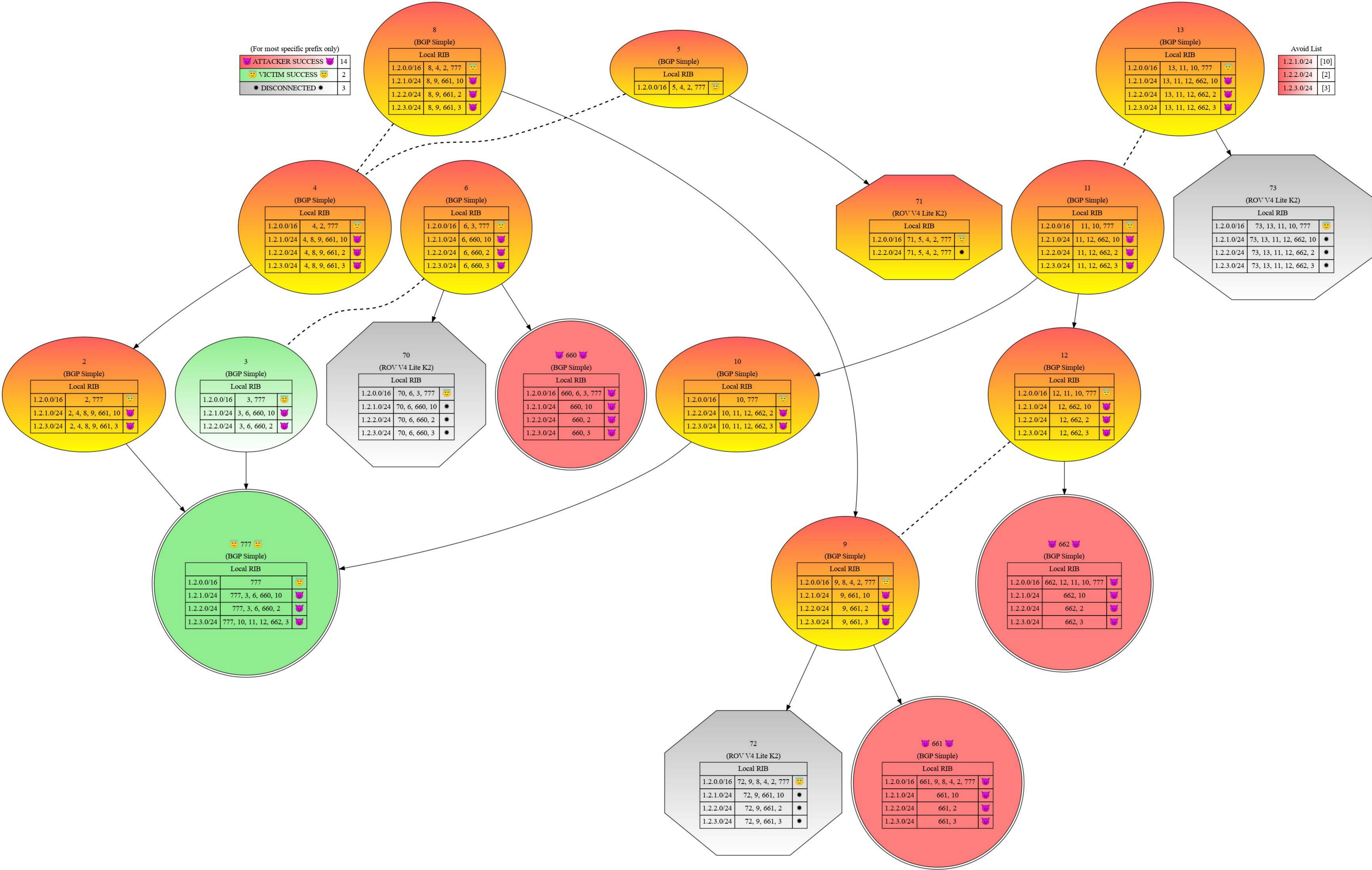


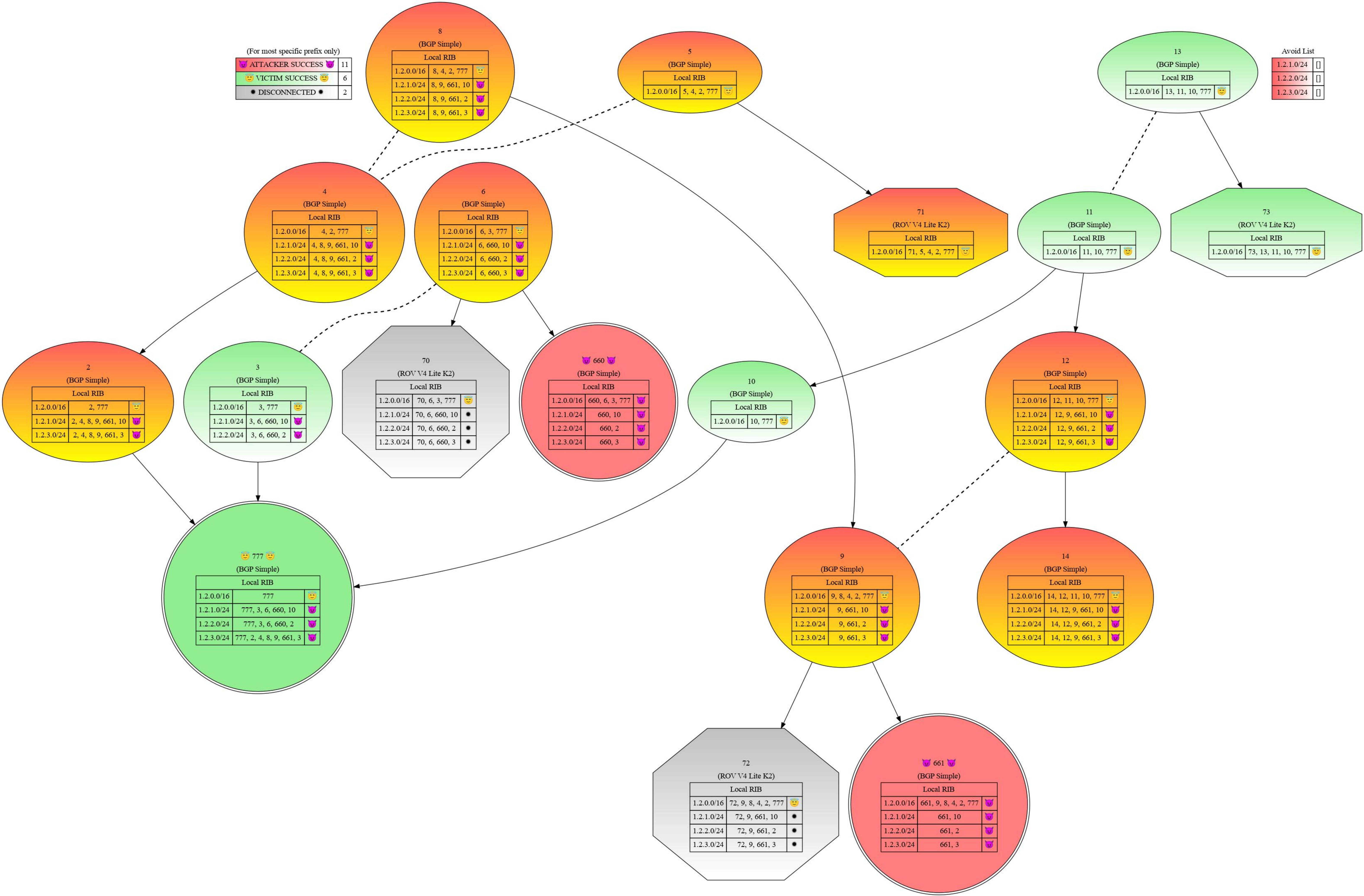
(138 Guess)  
AutoImmune Attack with V4 Lite k=1  
Traceback for 1.2.1.0/24

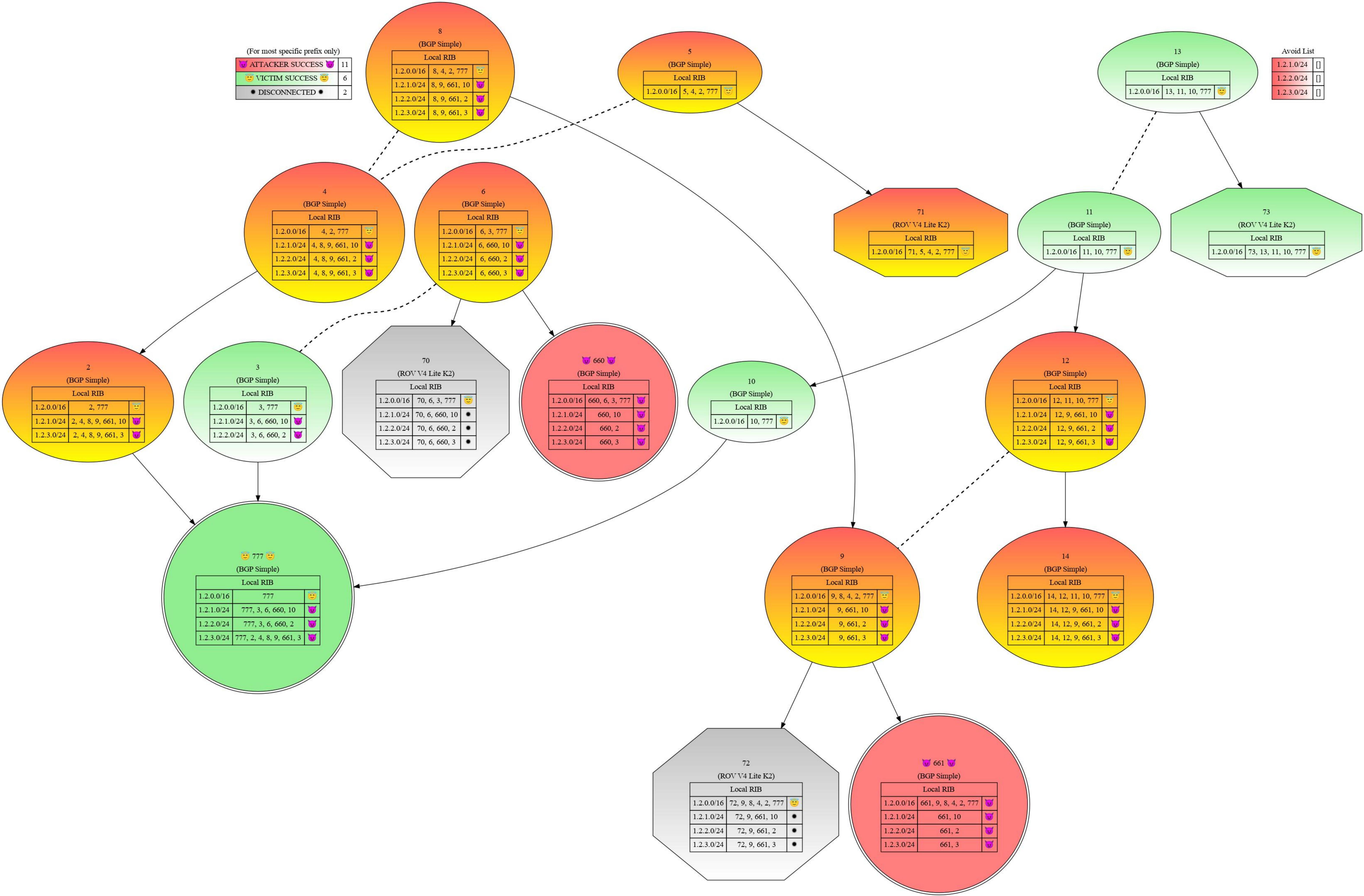






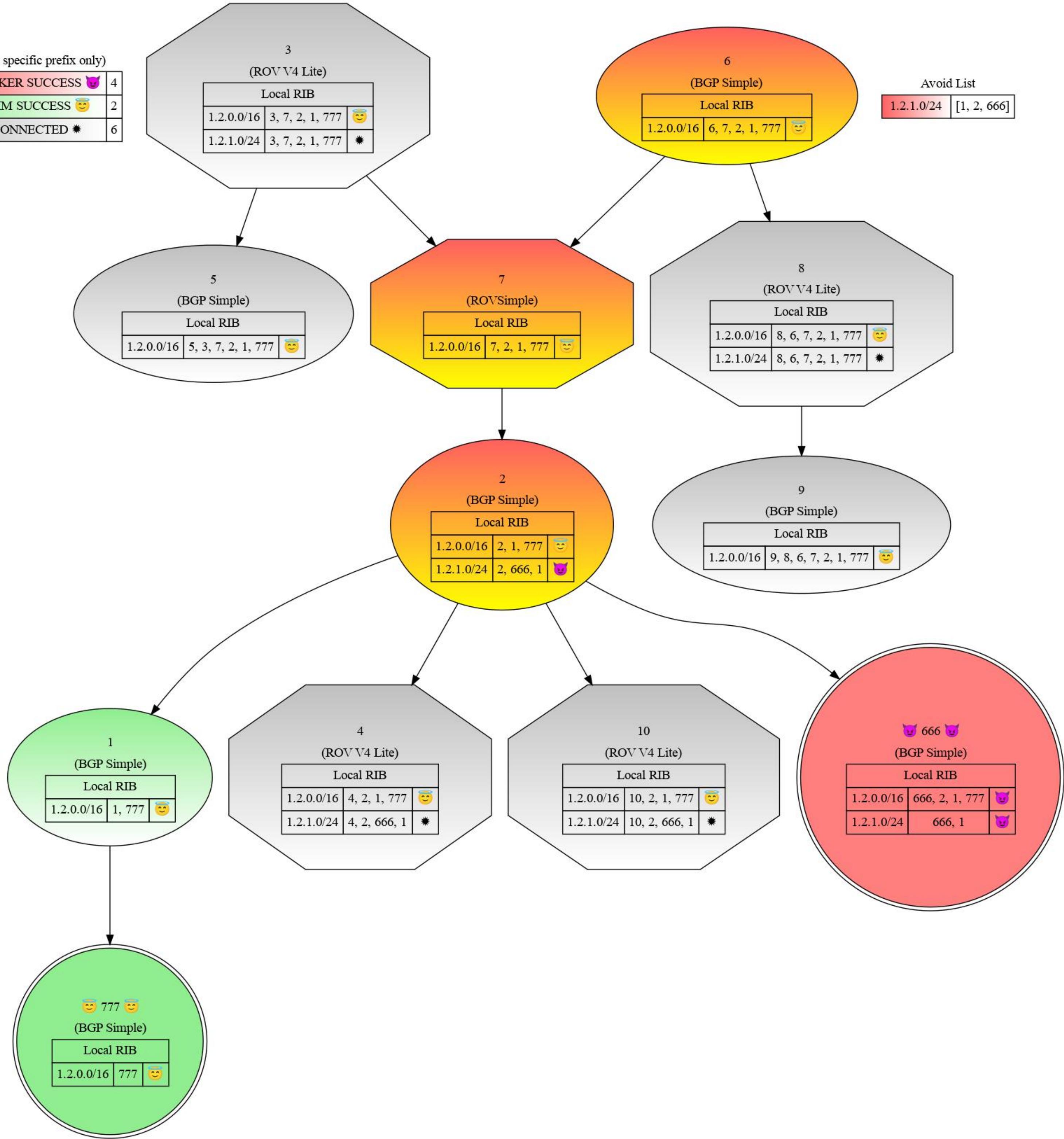






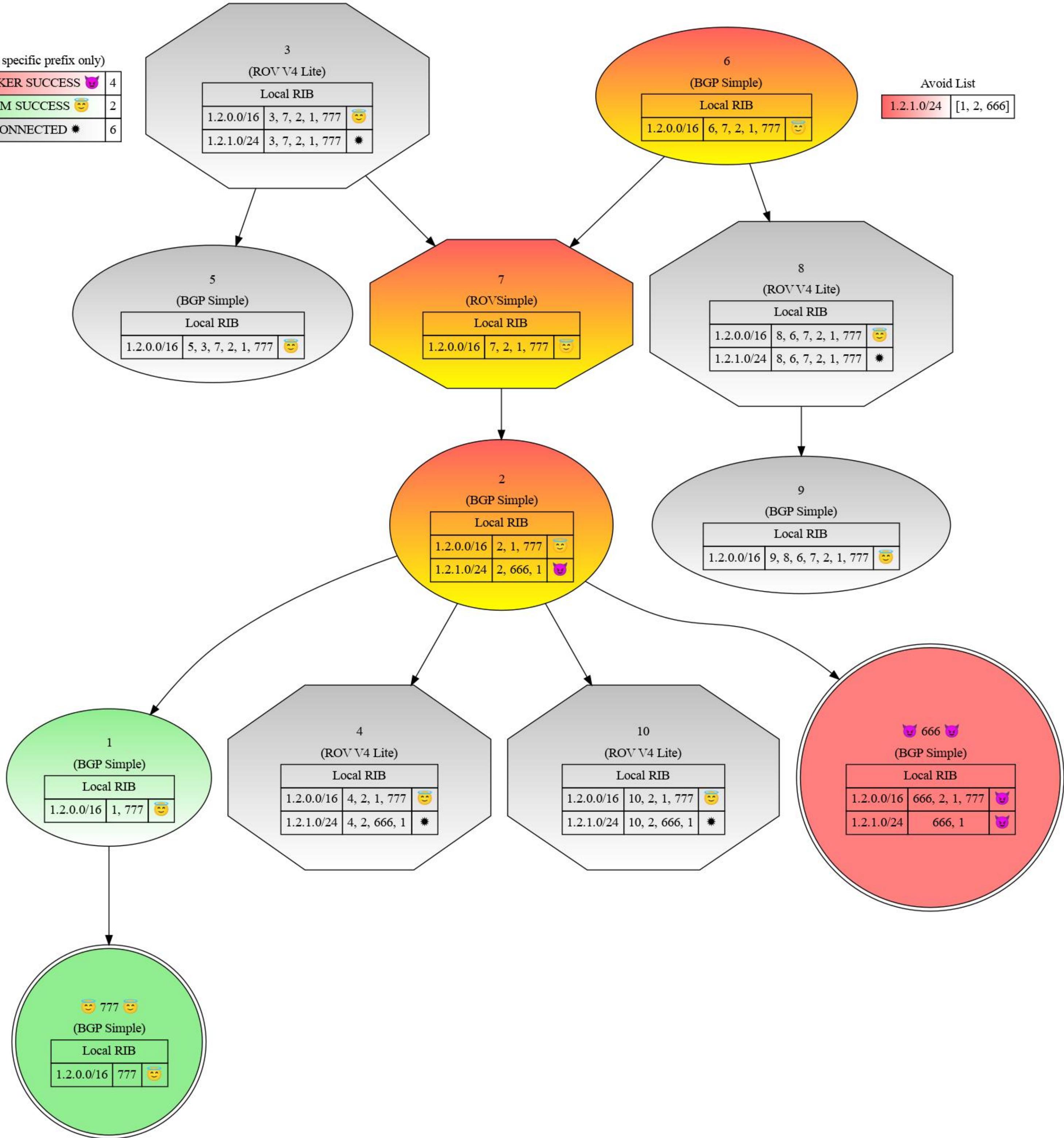
(For most specific prefix only)

ATTACKER SUCCESS	4
VICTIM SUCCESS	2
DISCONNECTED	6



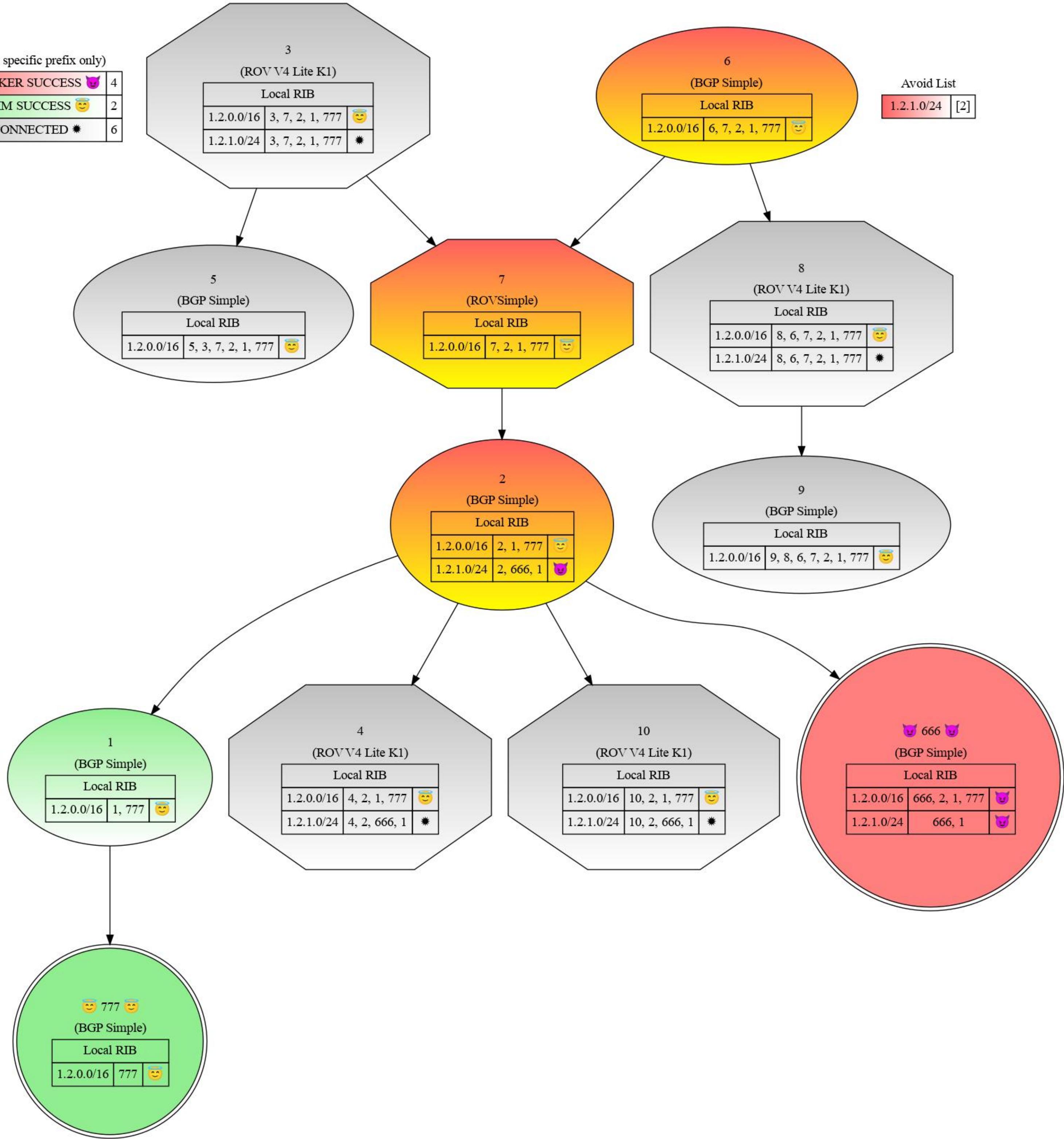
(For most specific prefix only)

ATTACKER SUCCESS	4
VICTIM SUCCESS	2
DISCONNECTED	6



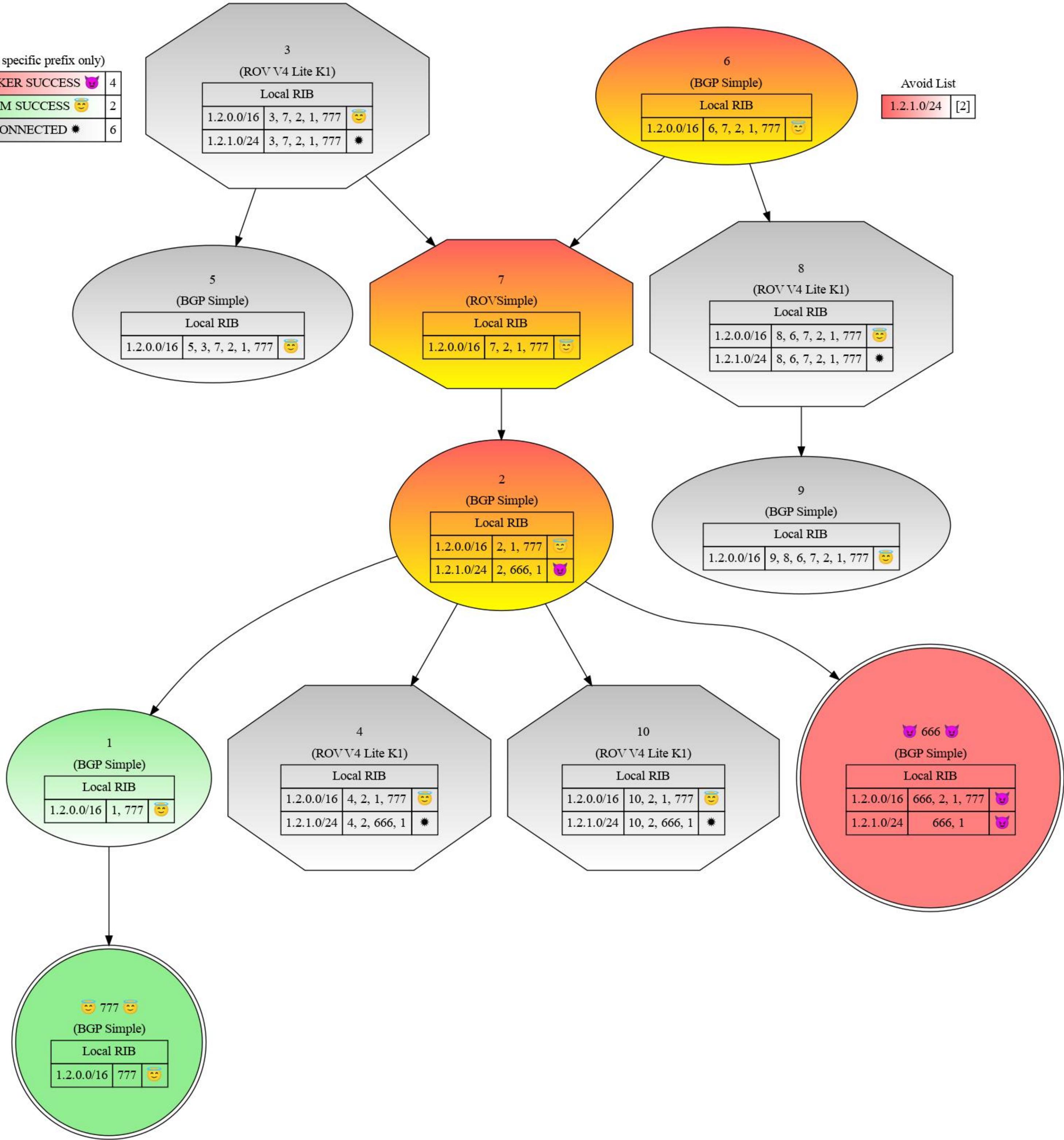
(For most specific prefix only)

ATTACKER SUCCESS	4
VICTIM SUCCESS	2
DISCONNECTED	6



(For most specific prefix only)

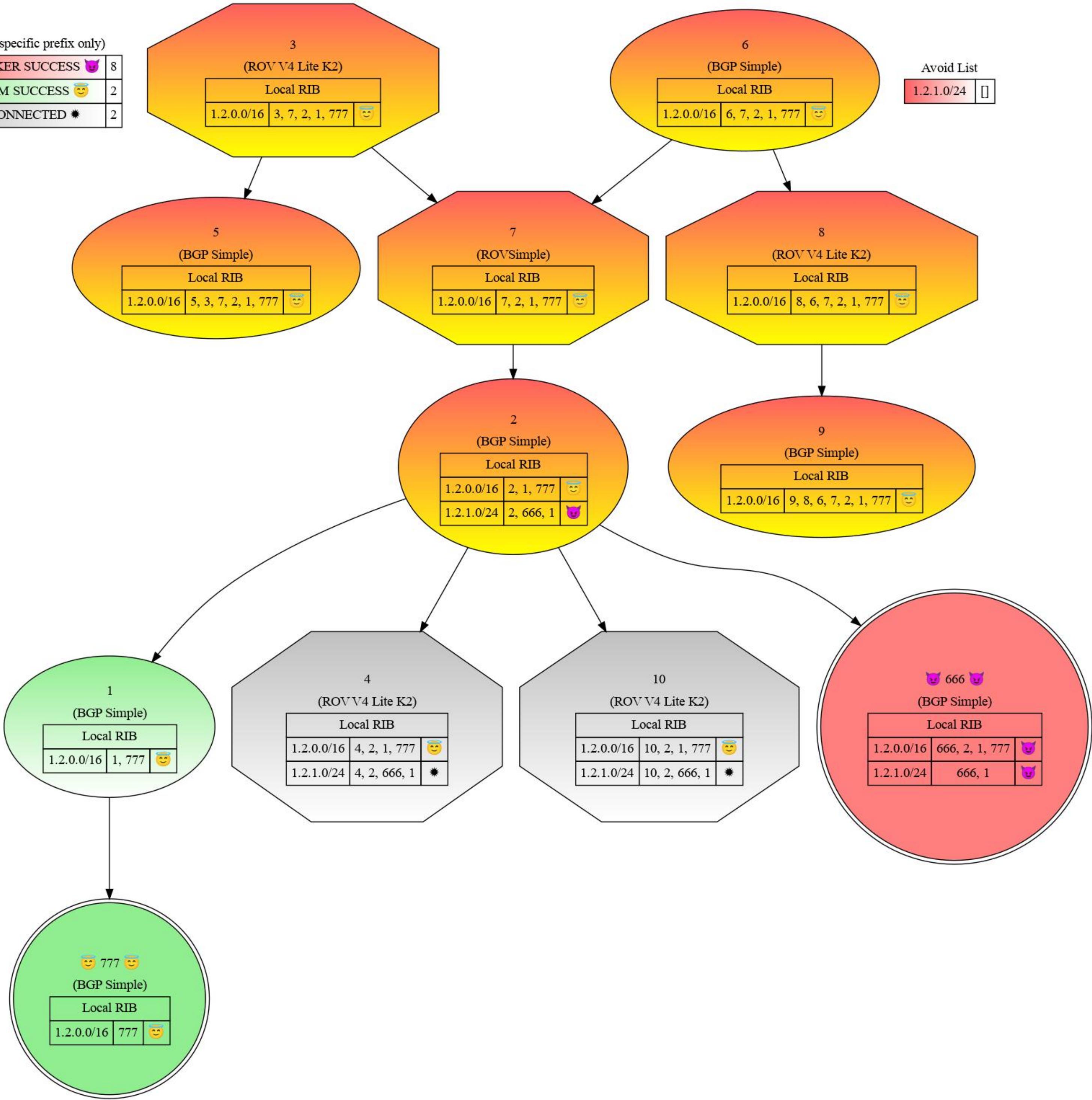
ATTACKER SUCCESS	4
VICTIM SUCCESS	2
DISCONNECTED	6



(143 Guess)  
AutoImmune Attack with V4 Lite k=1  
Traceback for 1.2.1.0/24

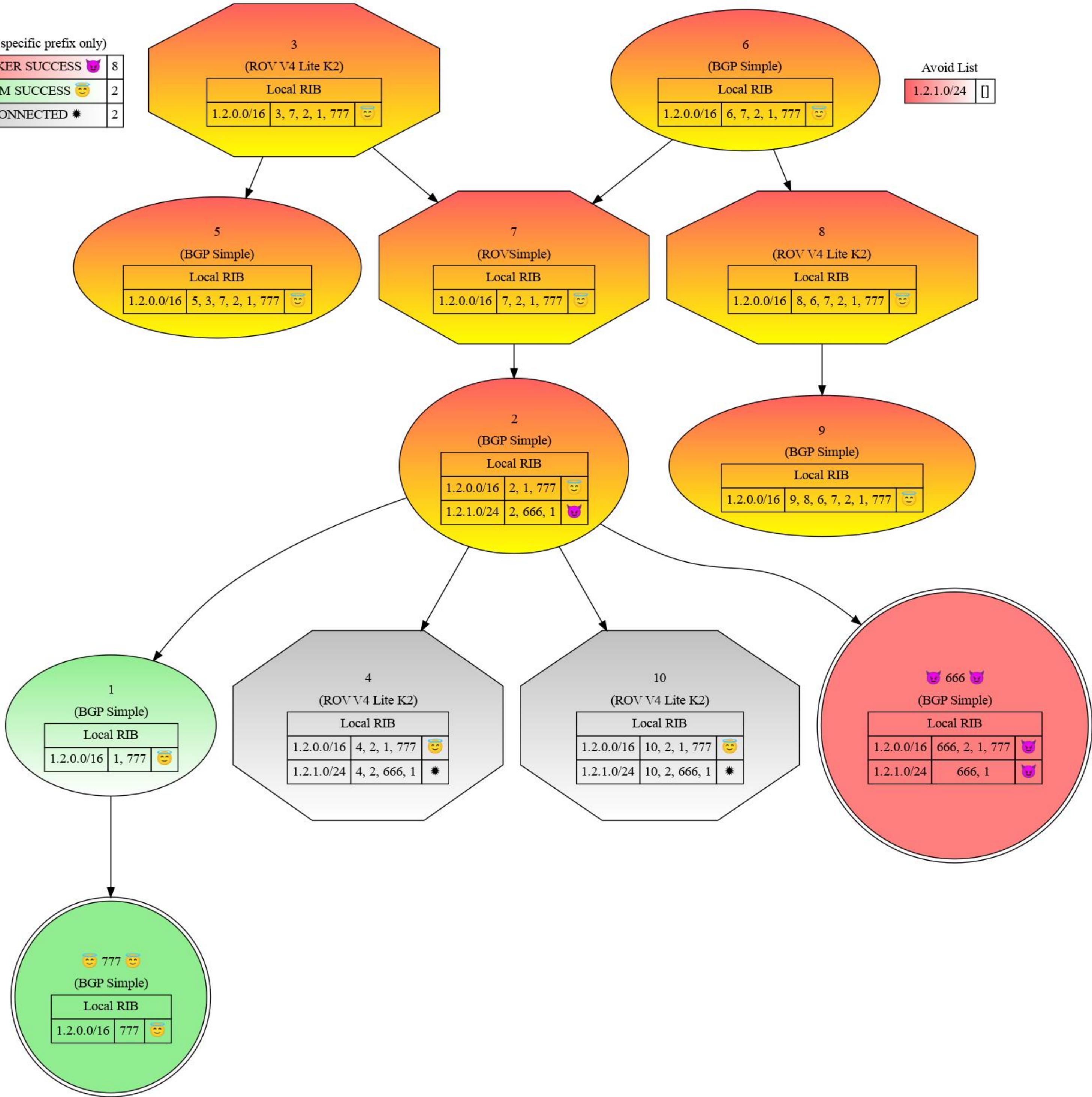
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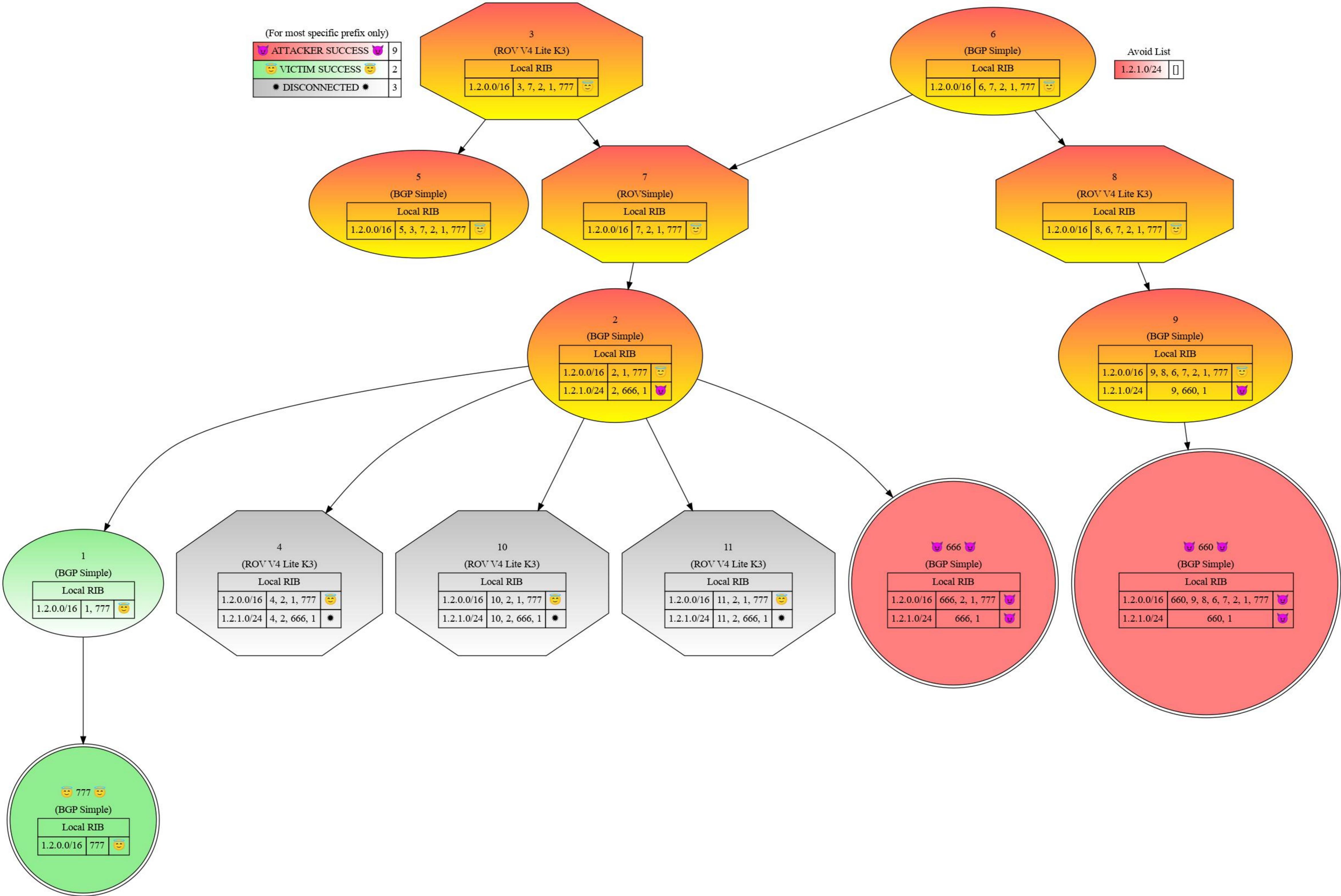
ATTACKER SUCCESS	8
VICTIM SUCCESS	2
DISCONNECTED	2

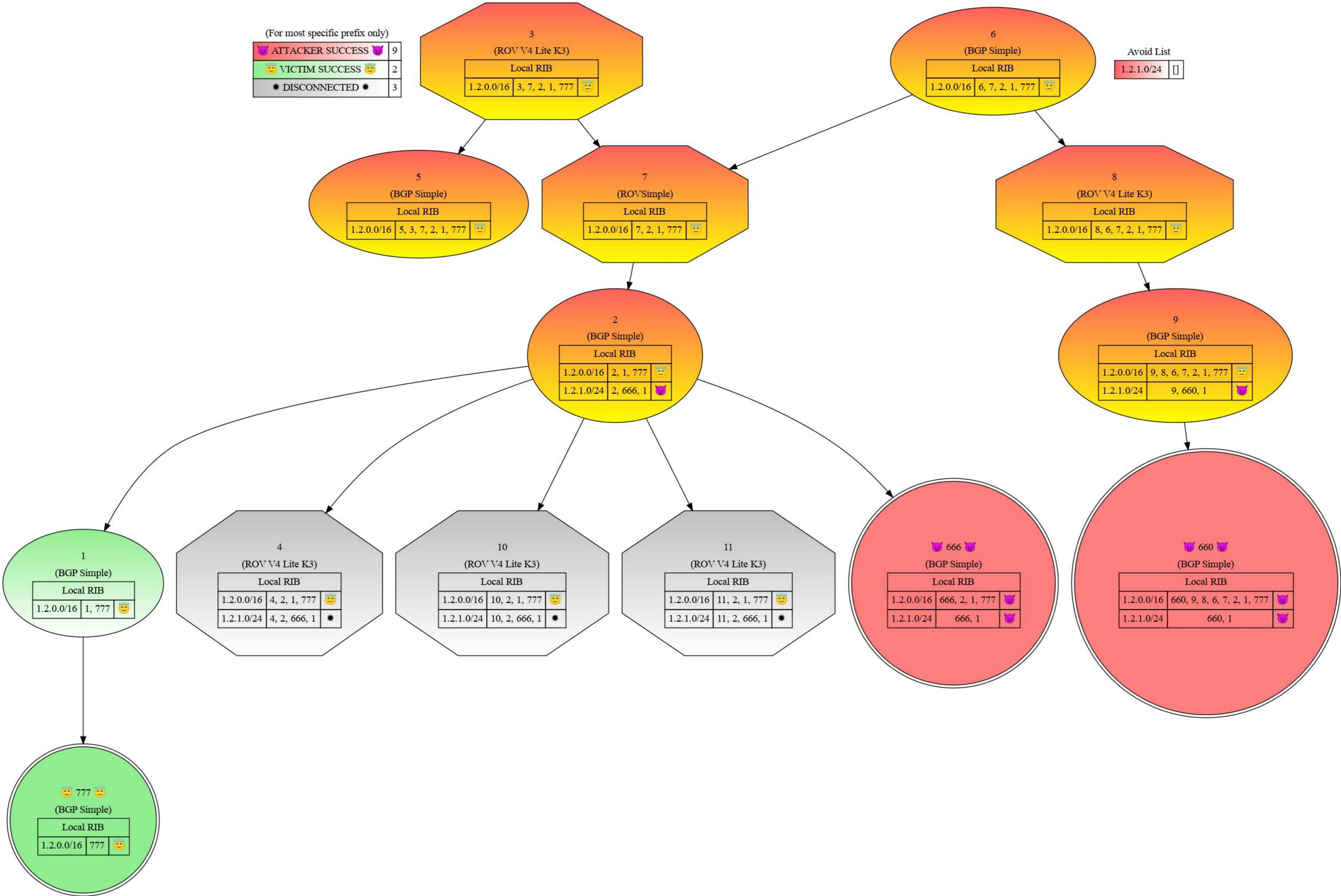


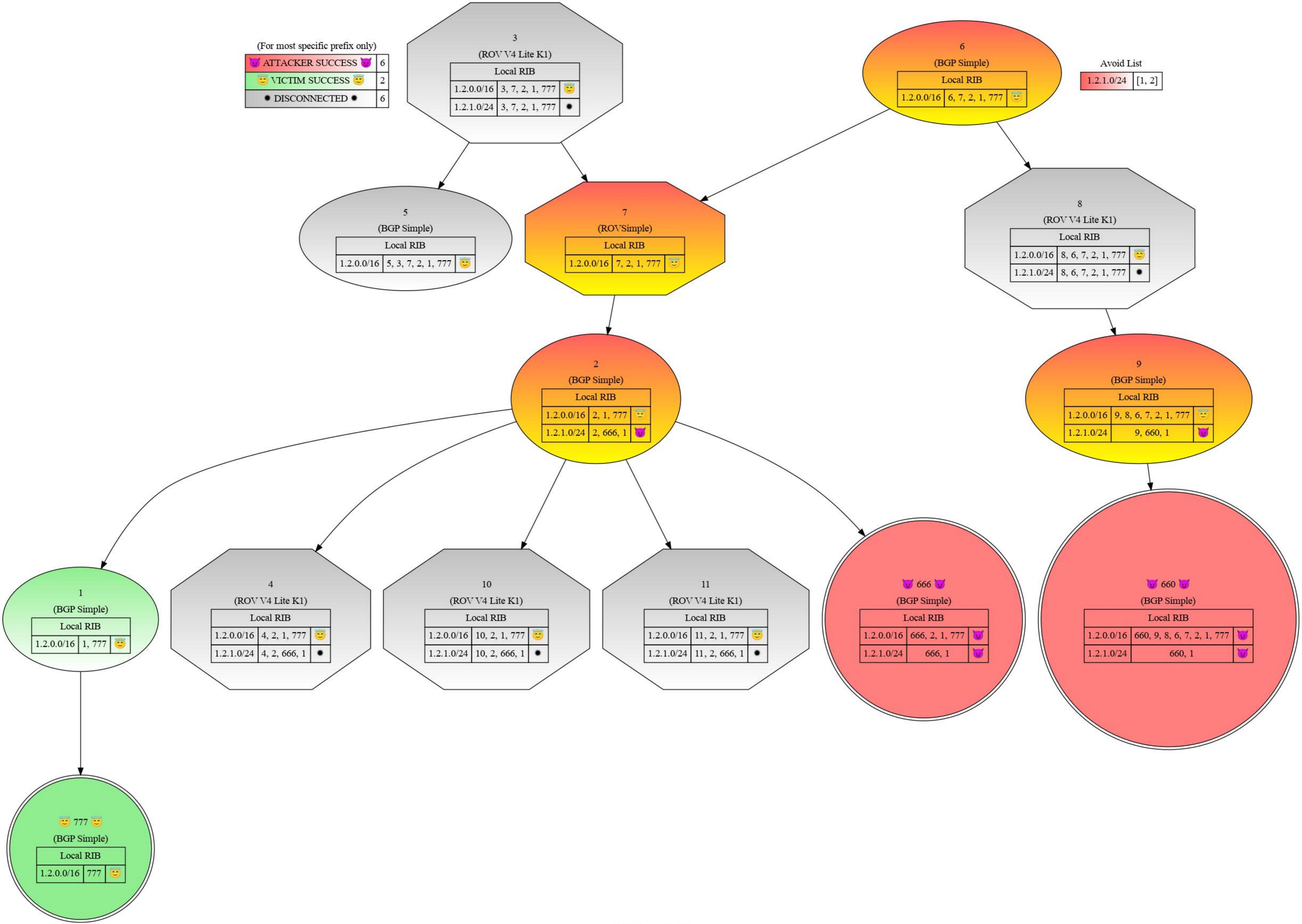
(For most specific prefix only)

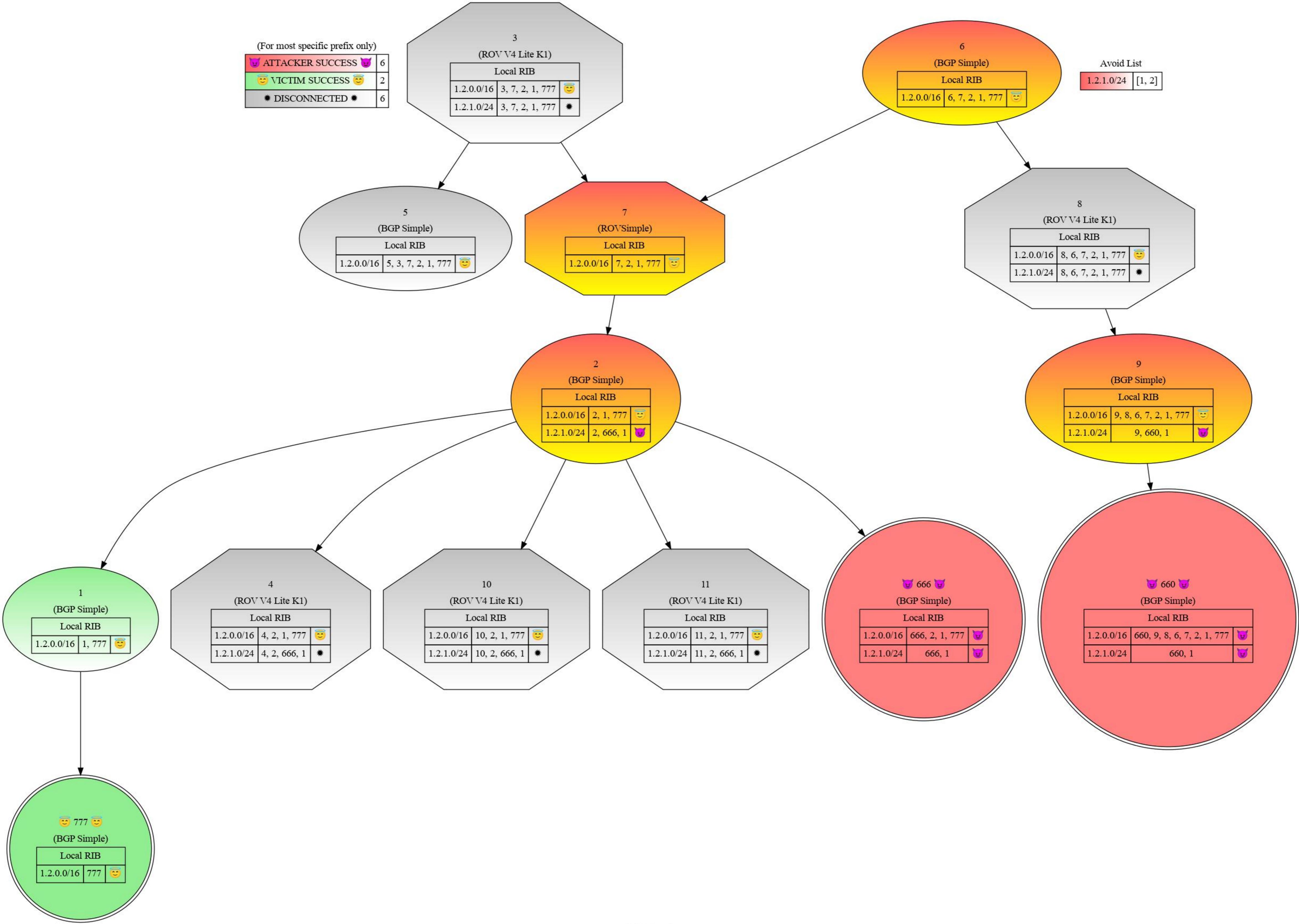
ATTACKER SUCCESS	8
VICTIM SUCCESS	2
DISCONNECTED	2

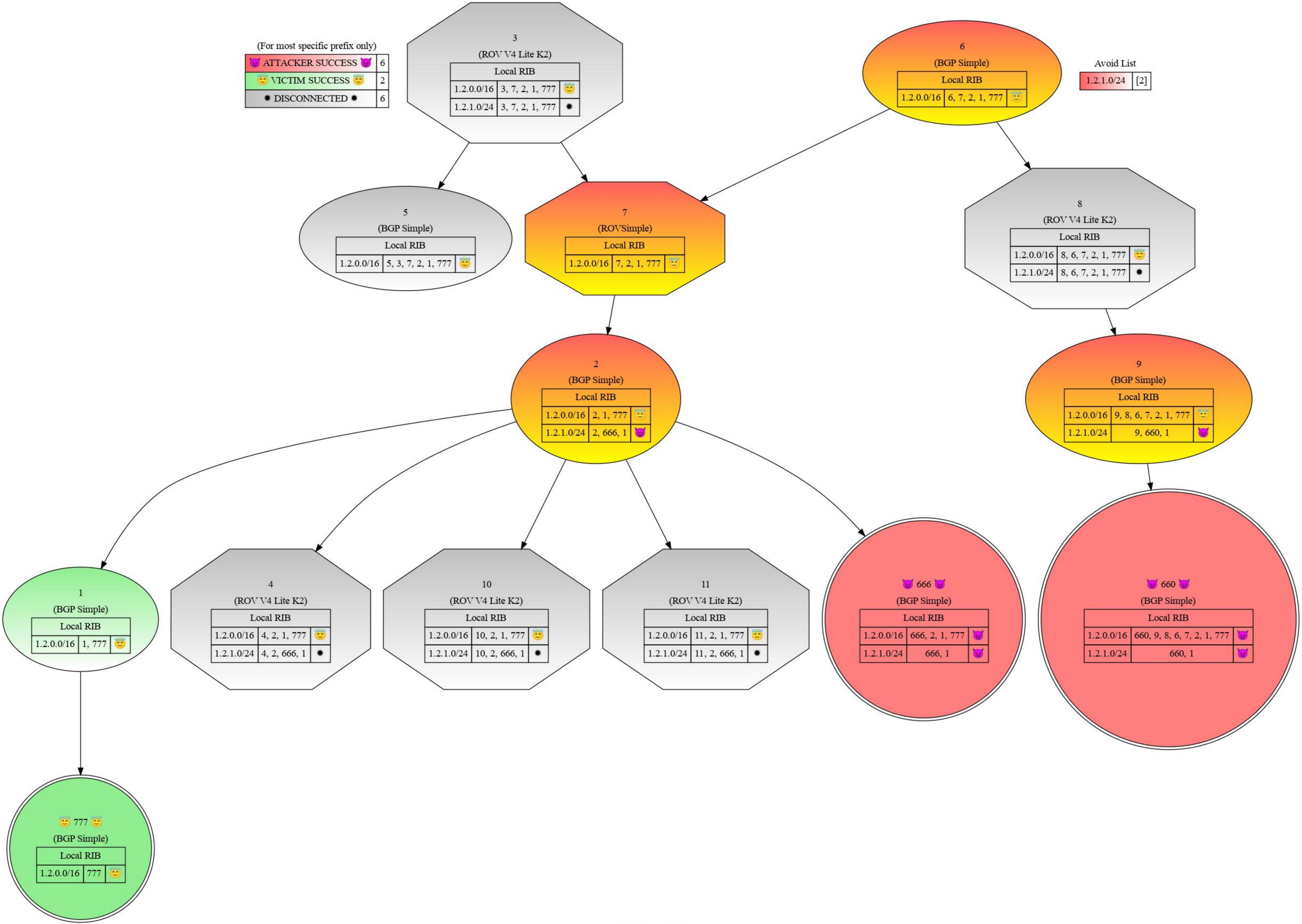


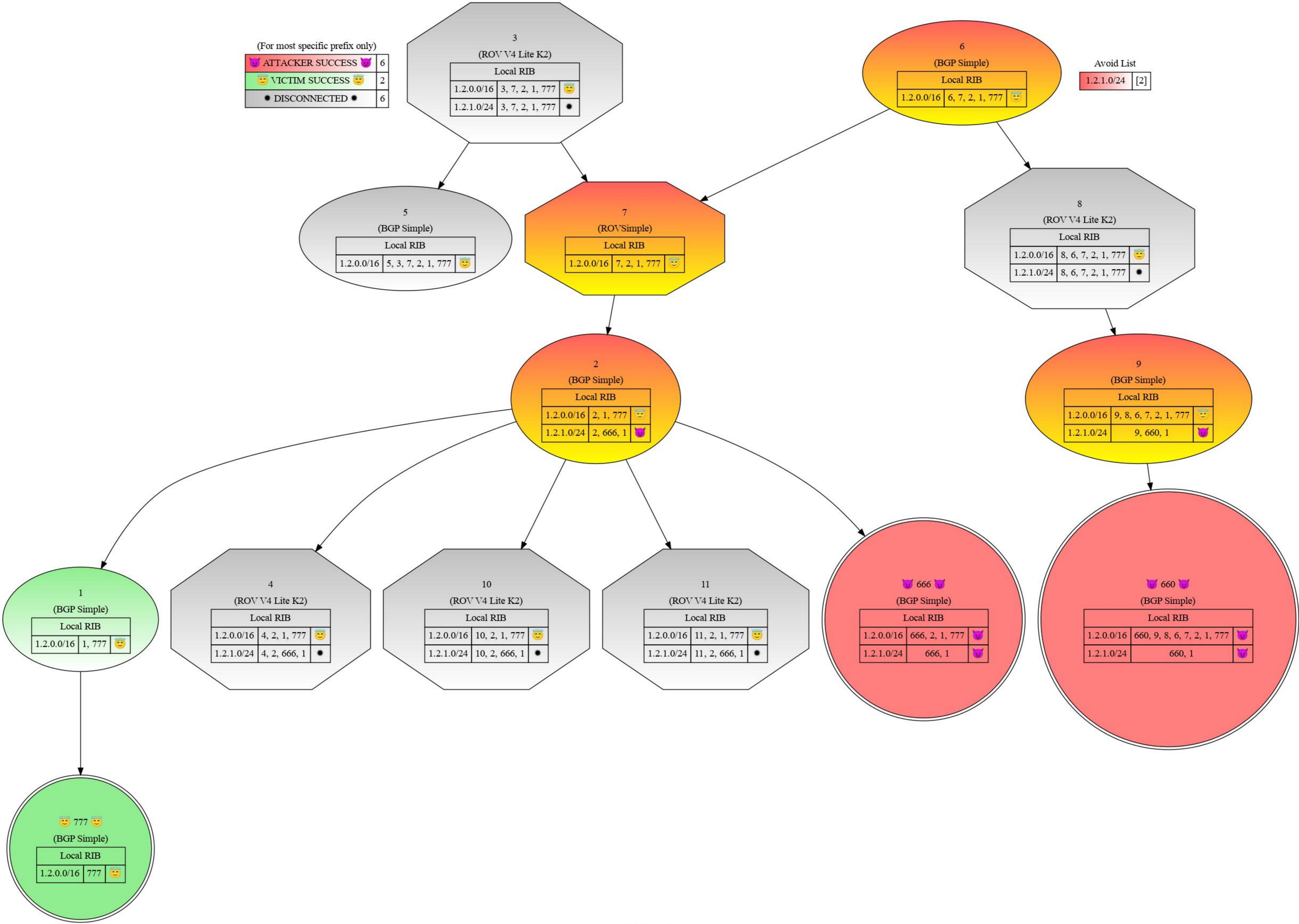


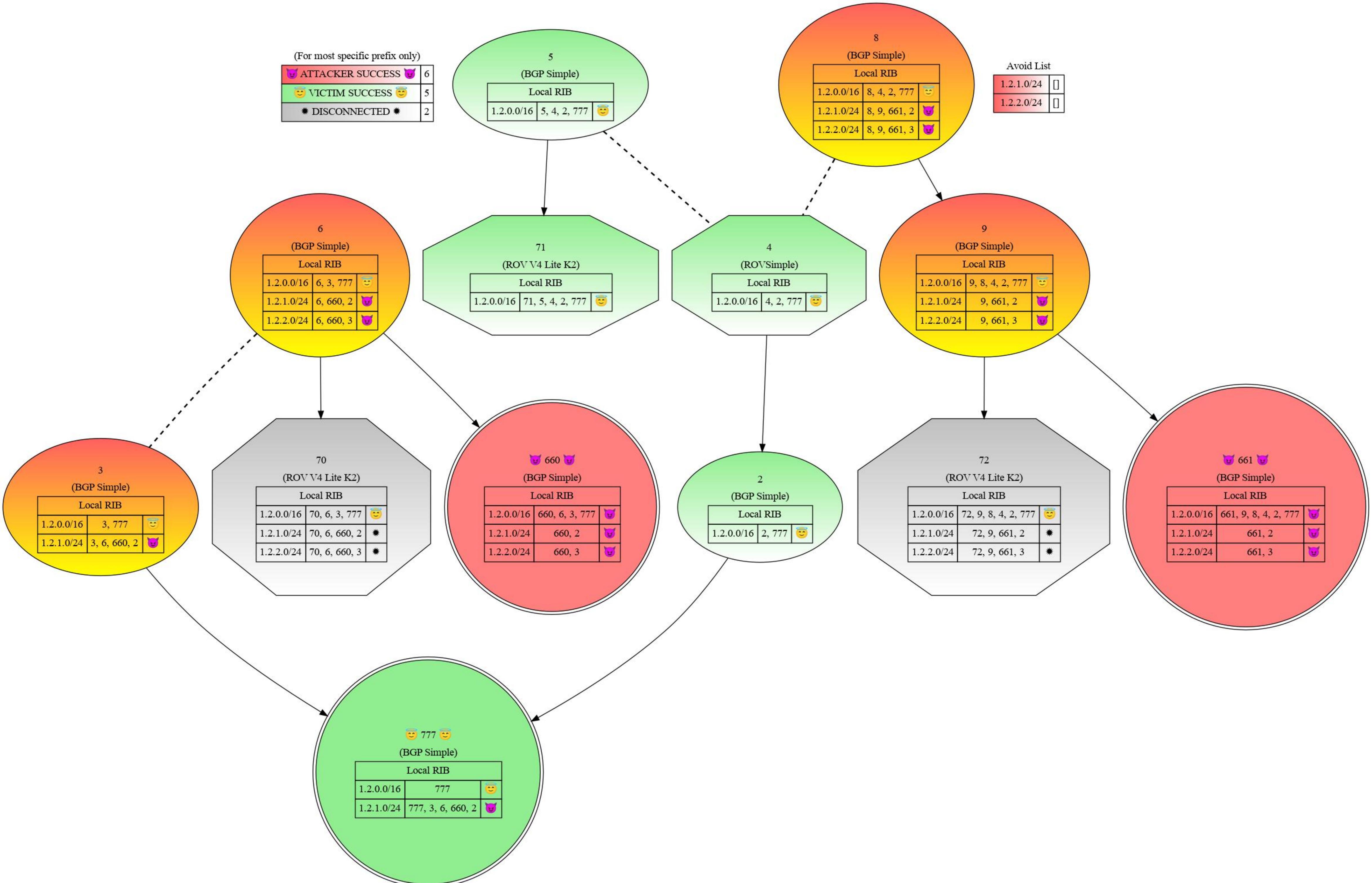




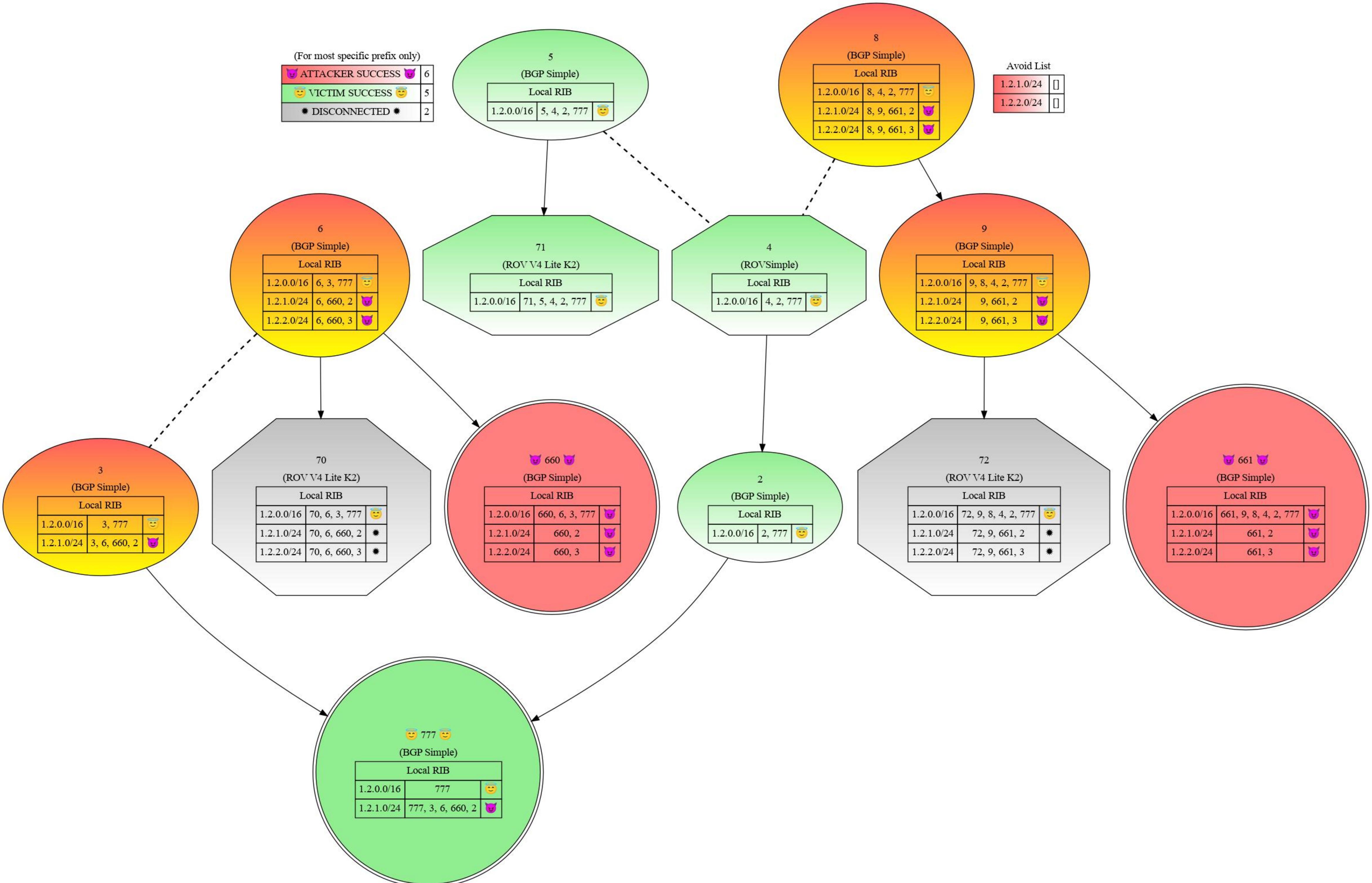




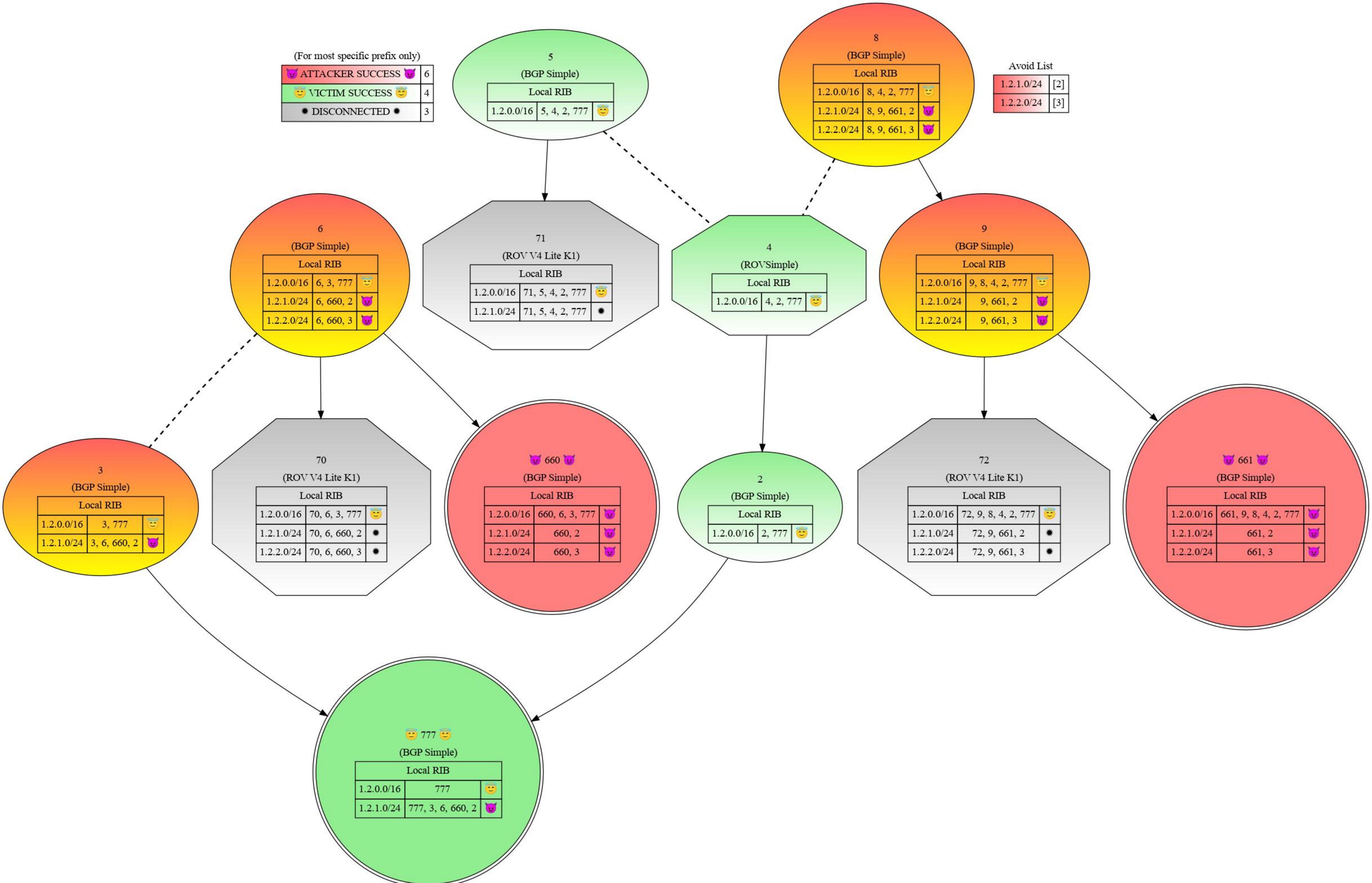




(148 Ground Truth)  
AutoImmune Attack with V4 Lite k=2  
Traceback for 1.2.1.0/24



(148 Guess)  
AutoImmune Attack with V4 Lite k=2  
Traceback for 1.2.1.0/24



(149 Ground Truth)  
AutoImmune Attack with V4 Lite k=1  
Traceback for 1.2.1.0/24

