

Hvað er til ráða þegar hefðbundin talstöðvarfjarskipti bregðast viðbragðsaðilum ?



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Leit og björgun

Fjarskipti

Forsenda að vel heppnaðri
björgunaraðgerð eru góð fjarskipti

Björgunaraðgerðir byggja á samstarfi
margra ólíkra aðila

Lykilatriði eru samræming, stjórnun og
gott upplýsingaflæði



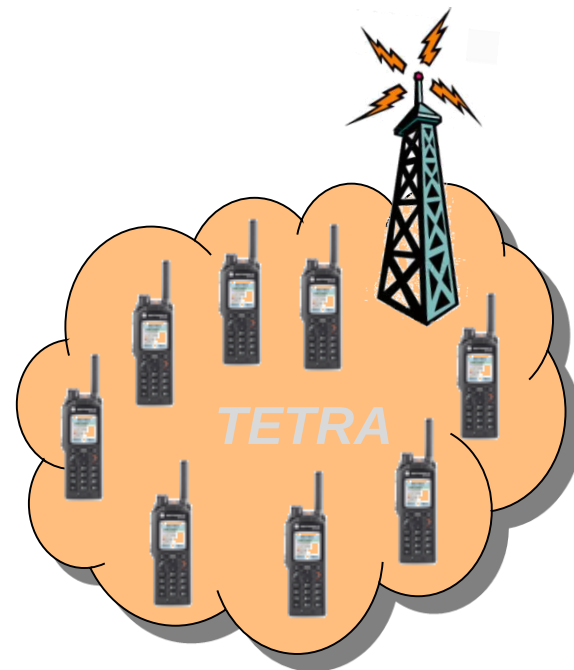
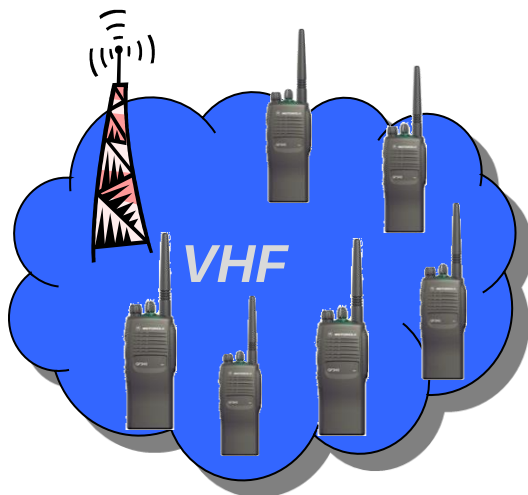


Fjarskiptakerfin

Björgunarsveitir eru að nota tvö talstöðvakerfi

VHF fjarskiptakerfið

Tetra fjarskiptakerfið

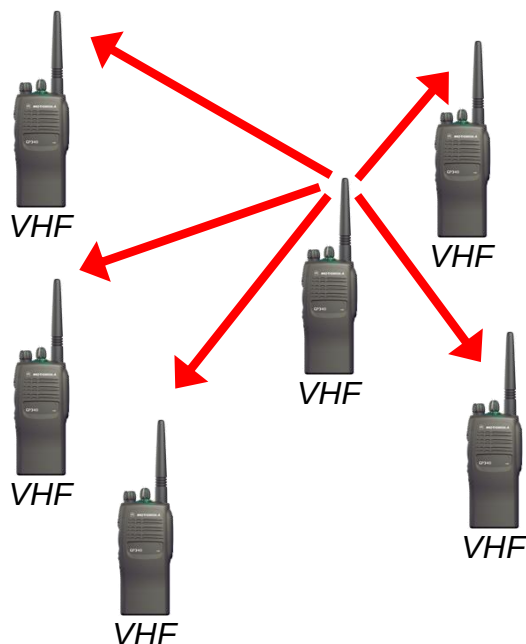




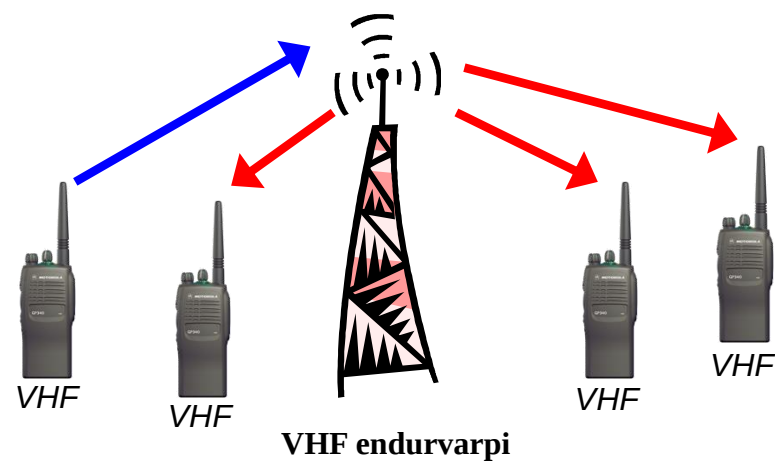
VHF fjarskiptakerfið

Fjarskipti

Bein samskipti

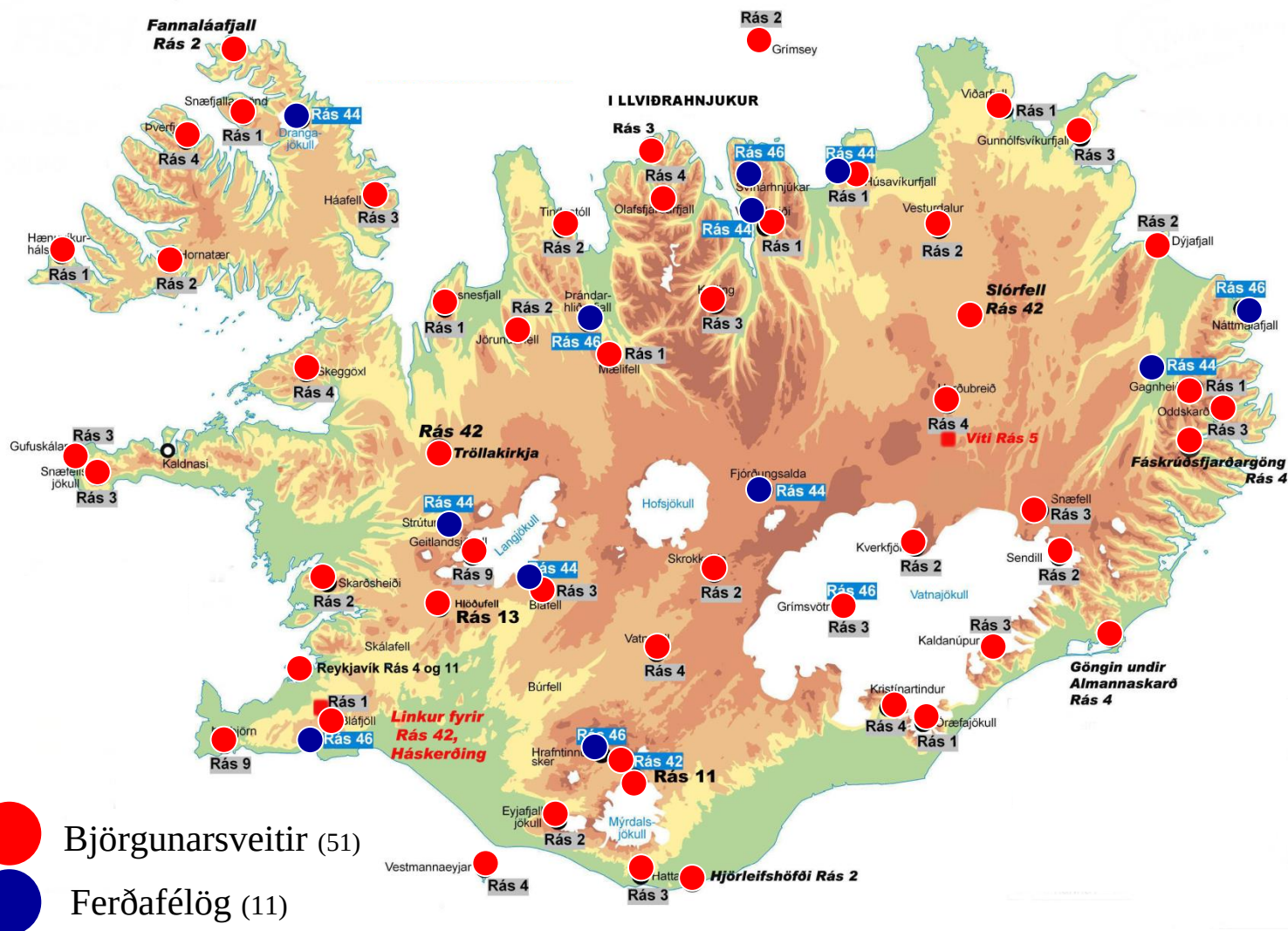


Samskipti í gegnum endurvarpa



VHF endurvarpar

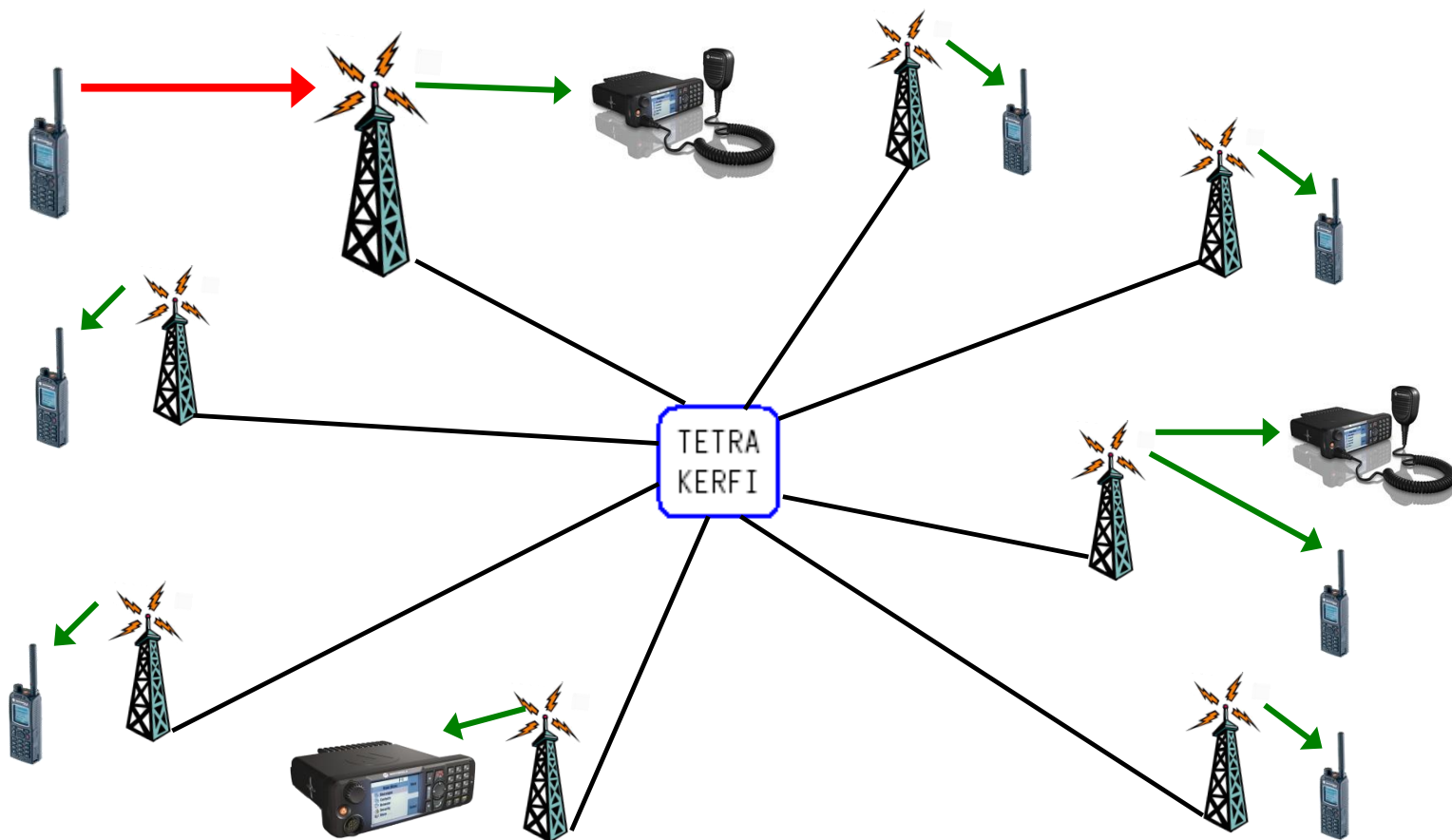
■ Fjarskipti





Tetra fjarskiptakerfið

Fjarskipti

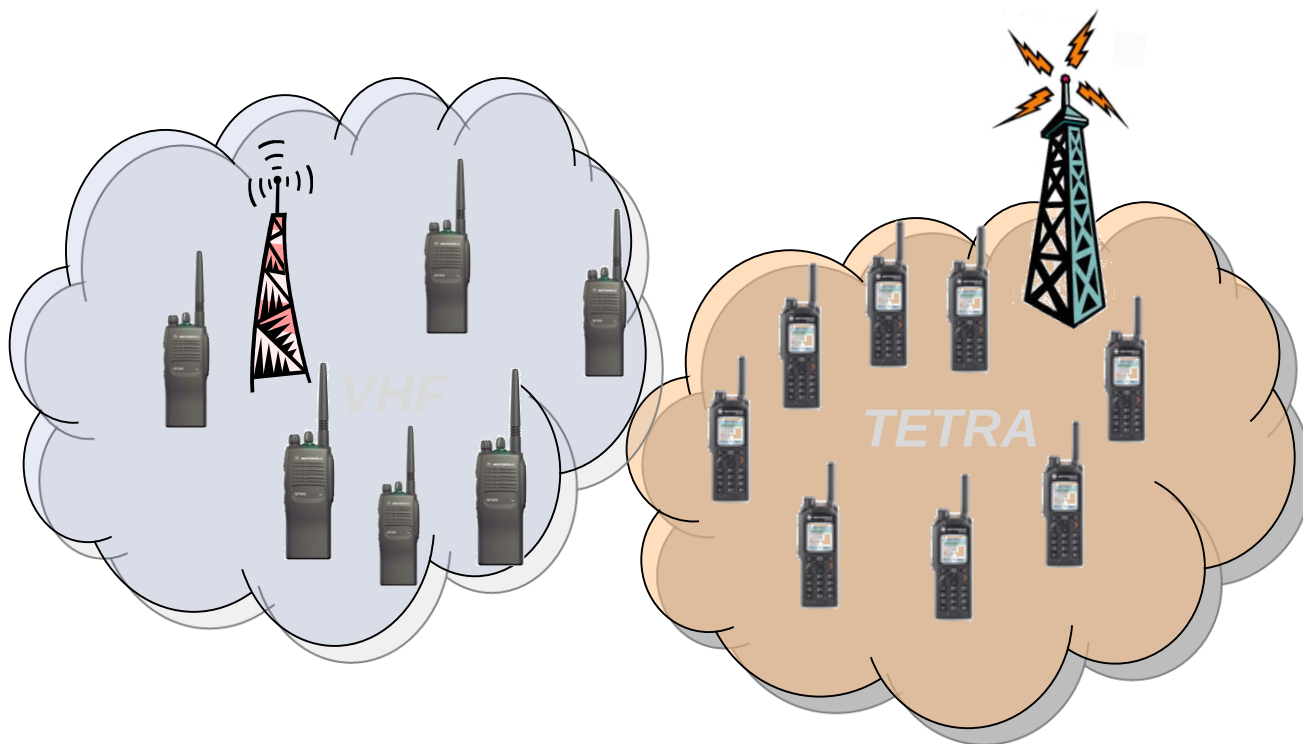




Fjarskiptakerfin

Fjarskipti

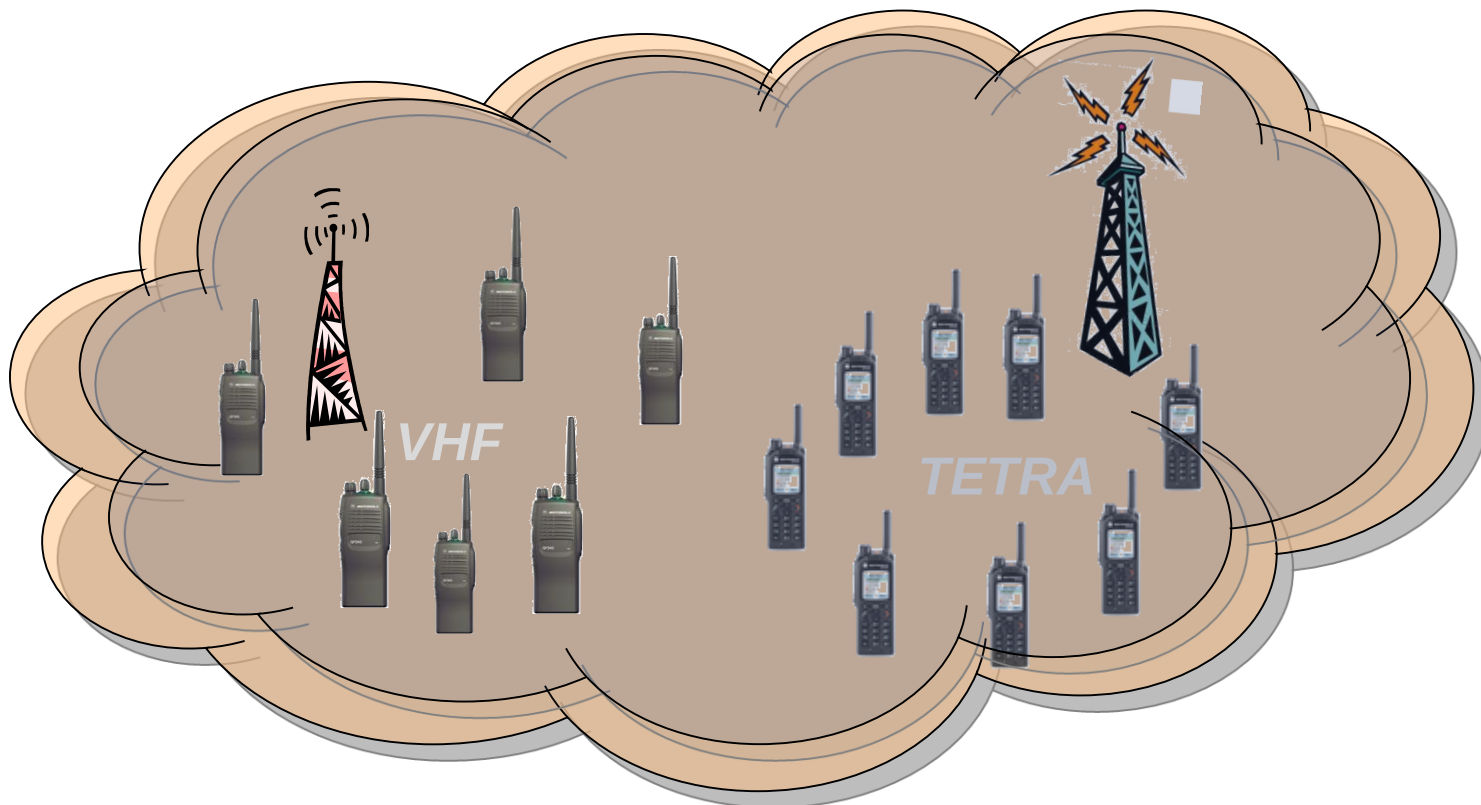
Hvernig tengjum við þessi kefi saman sem eitt ?





Fjarskiptakerfin

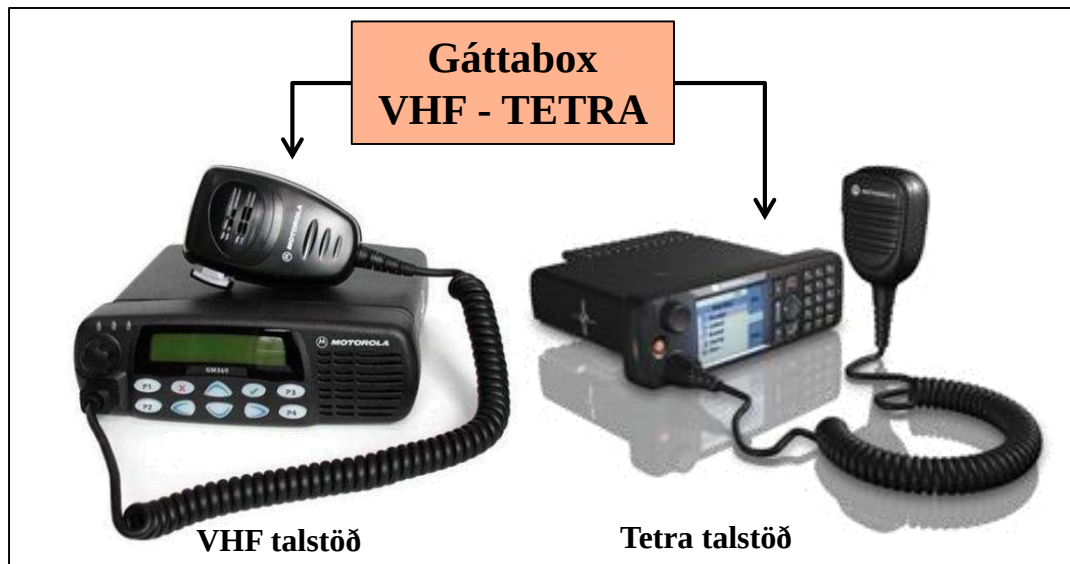
Hvernig tengjum við þessi kefi saman sem eitt ?





VHF – Tetra gátt

- Móttekin samskipti í VHF stöð eru send út í gegnum Tetra talstöð og svo á sama máta eru móttækin Tetra samskipti send til baka í gegnum VHF talstöð
- Tengitími er um hálf sekúnda
- Mjög áreiðanleg lausn sem gefur mikla möguleika á framlengingu fjarskipta með hinum ýmsu útfærslum





Færanleg stjórnstöð og gátt

Fjarskipti





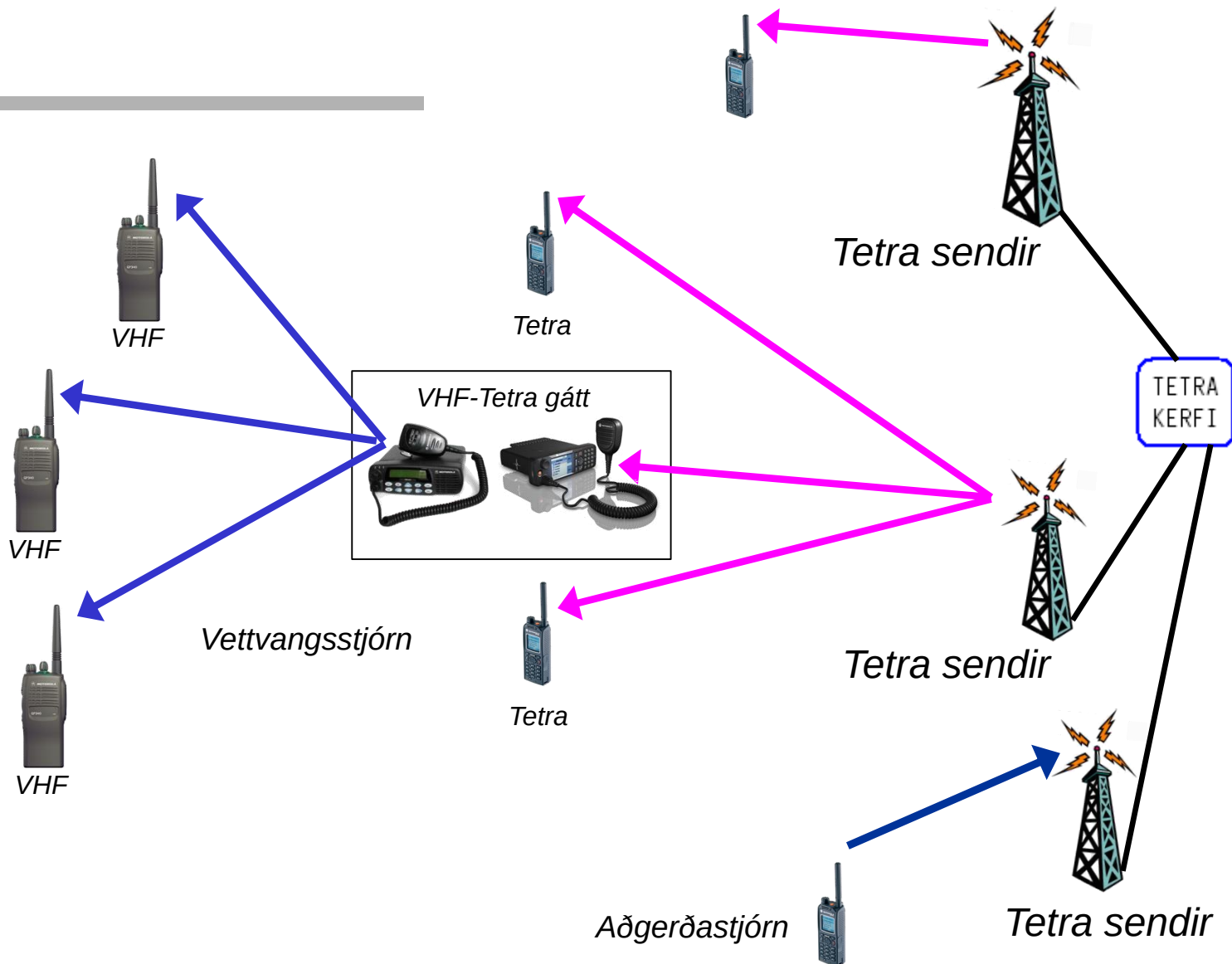
Gátt í farartæki

Fjarskipti



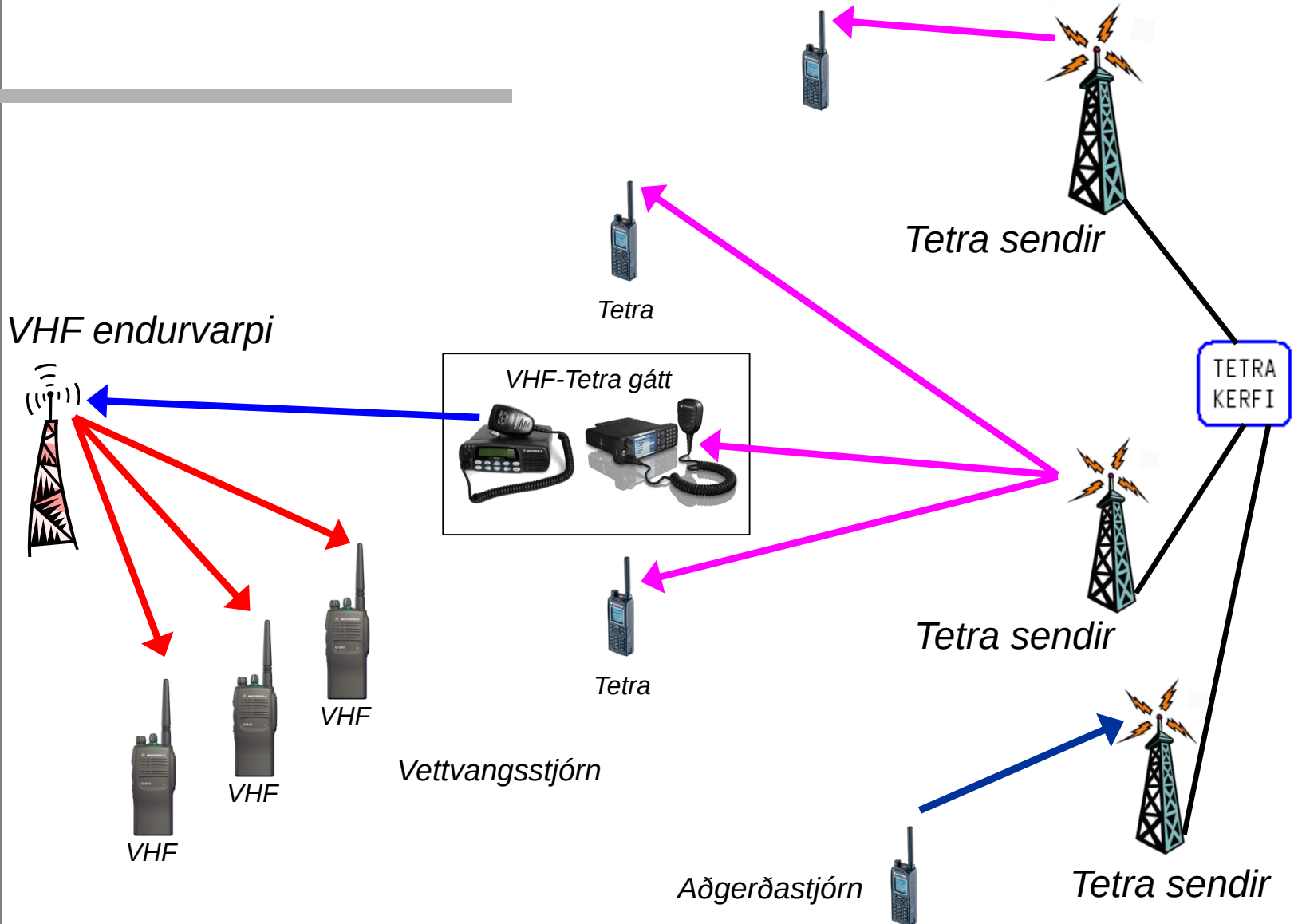


Bein VHF rás gáttuð í Tetra kerfi



Bein VHF rás gáttuð í Tetra kerfi

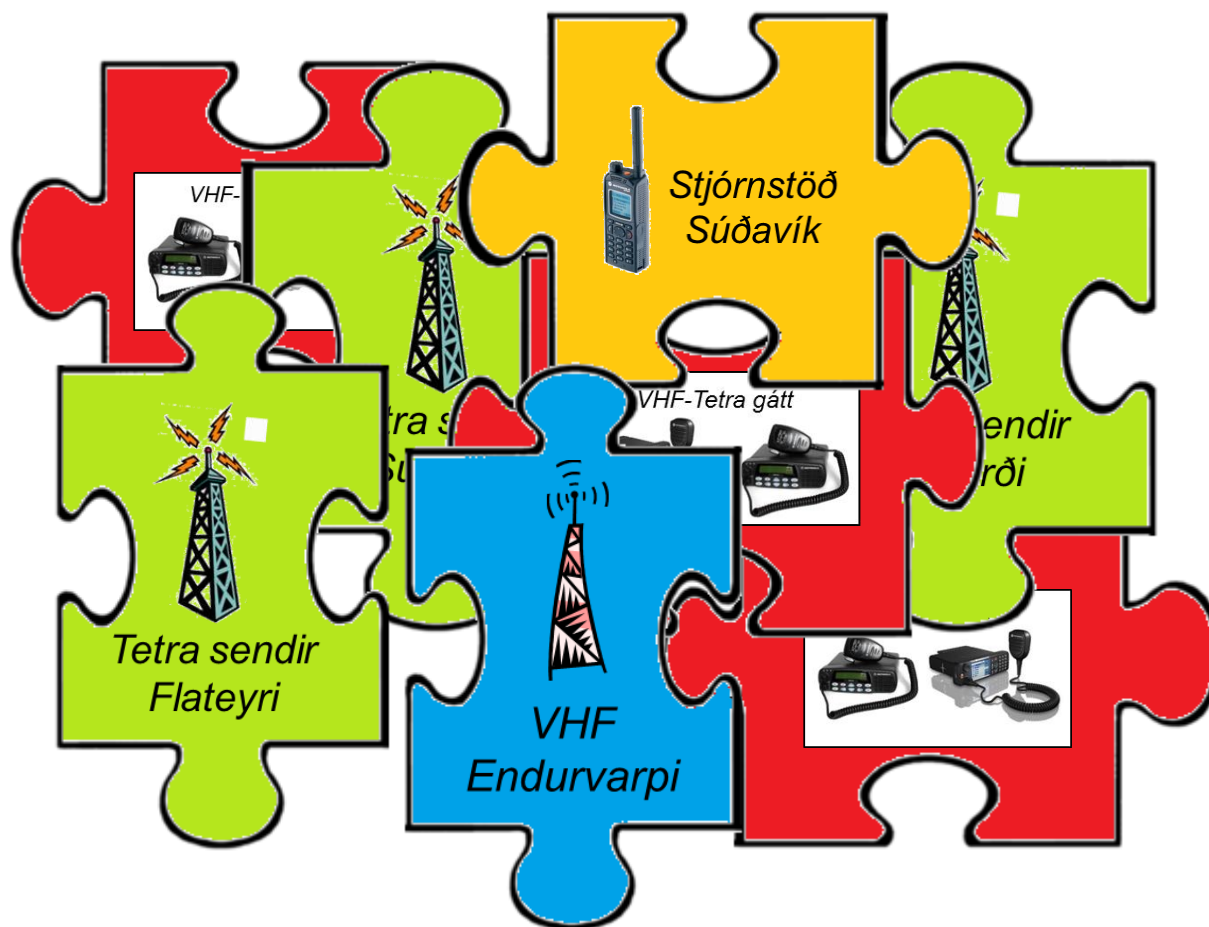
Fjarskipti





Skipulagning gáttarlausna

Fjarskipti





Tvær lausnir

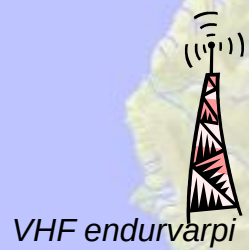
Kynning á aðstæðum





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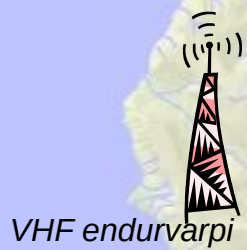
Fjarskipti



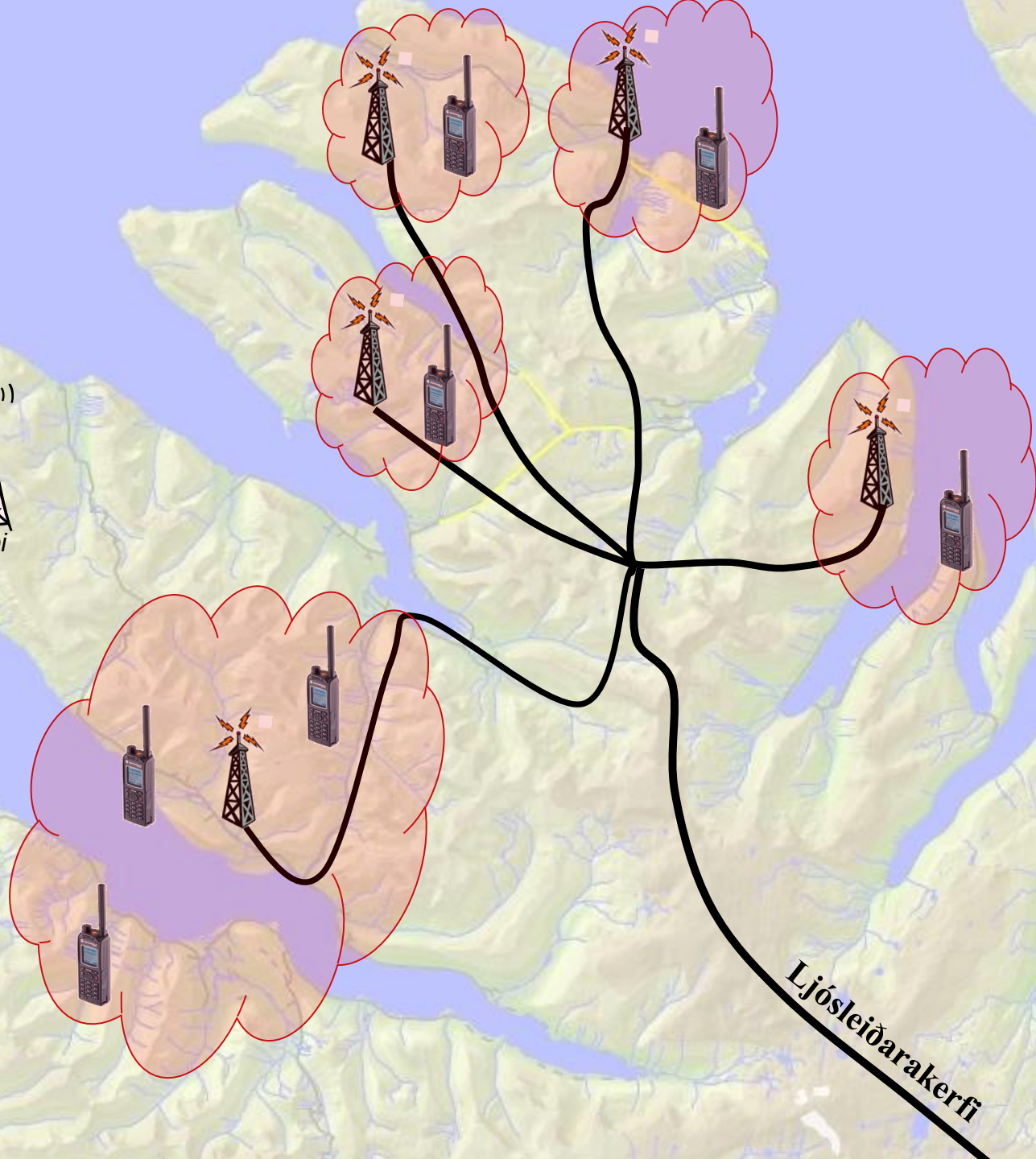


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Fjarskipti



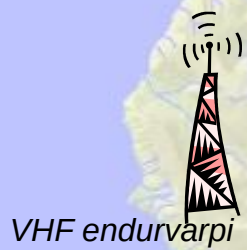
VHF endurvarpi



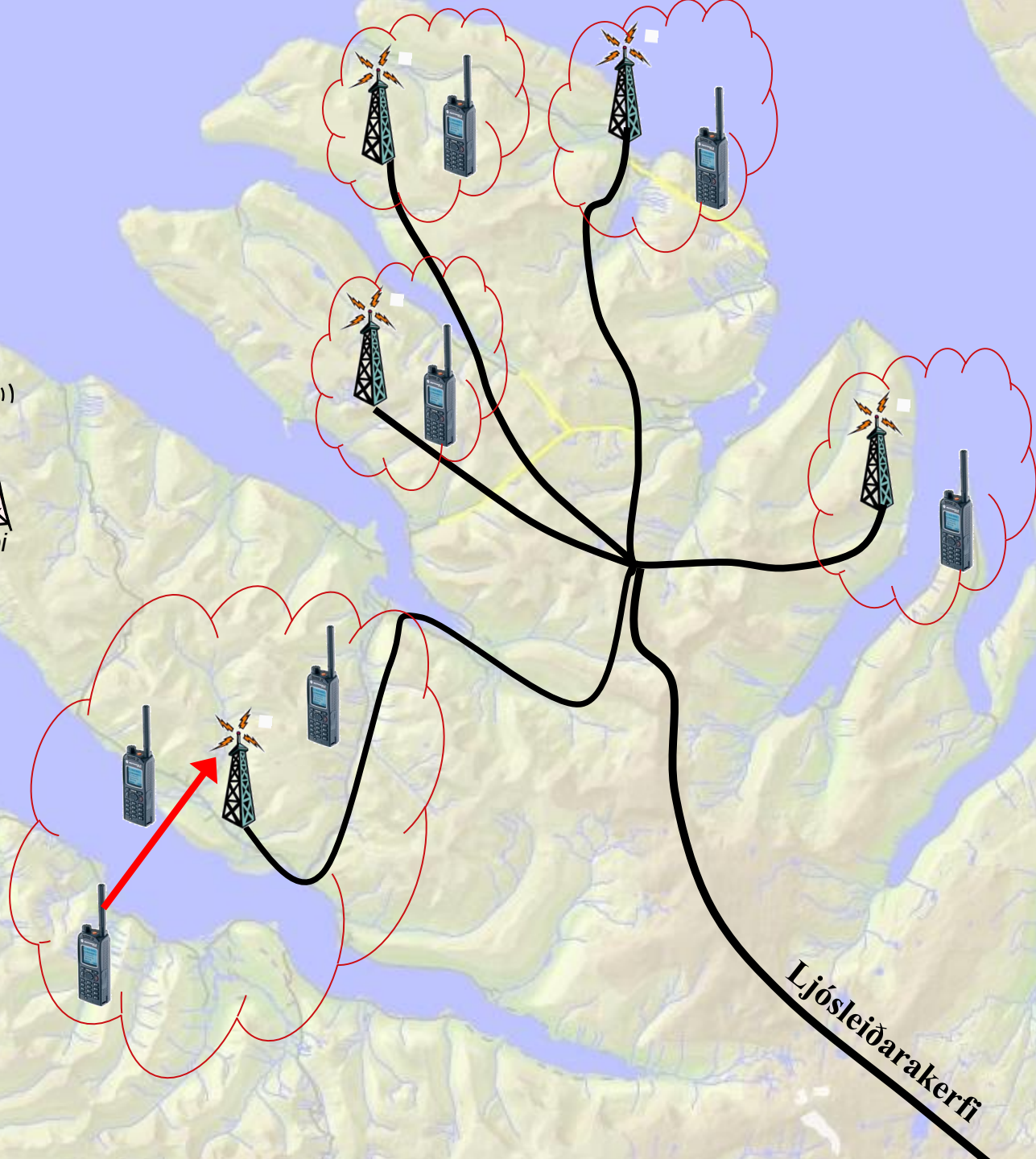


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Fjarskipti



VHF endurvarpi

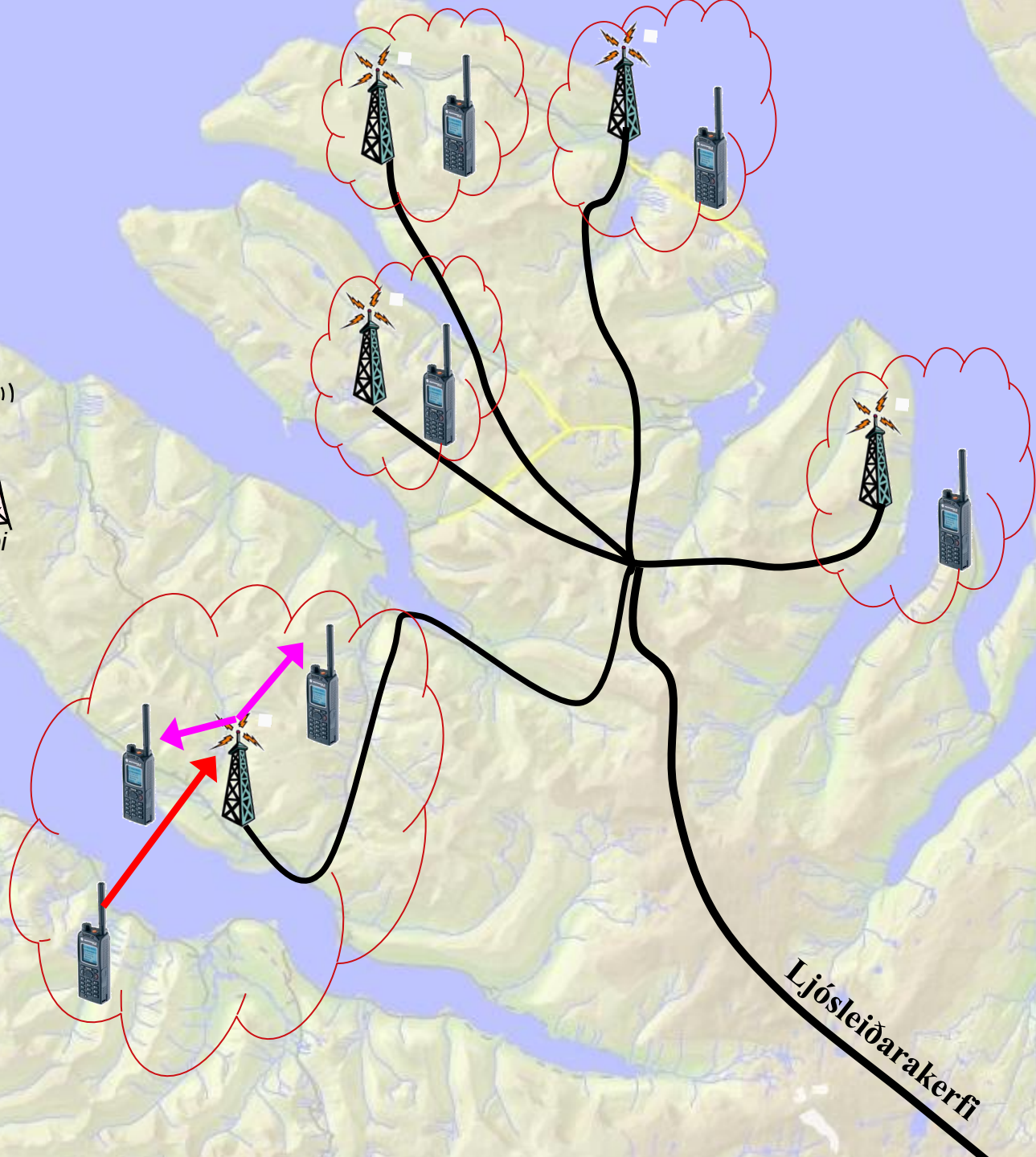
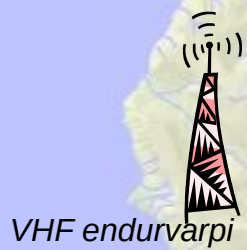


Ljósleiðarakerfi



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Fjarskipti



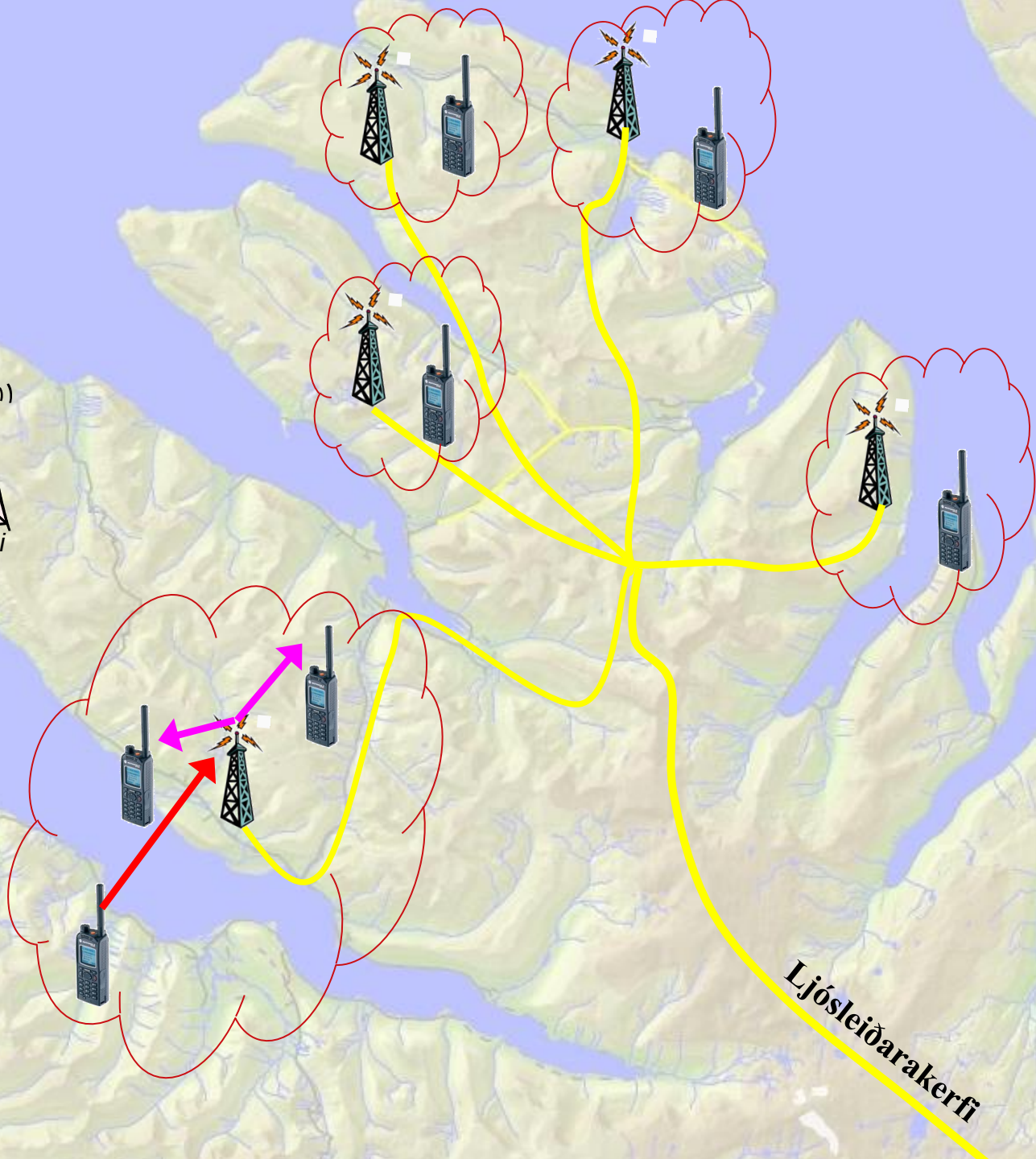


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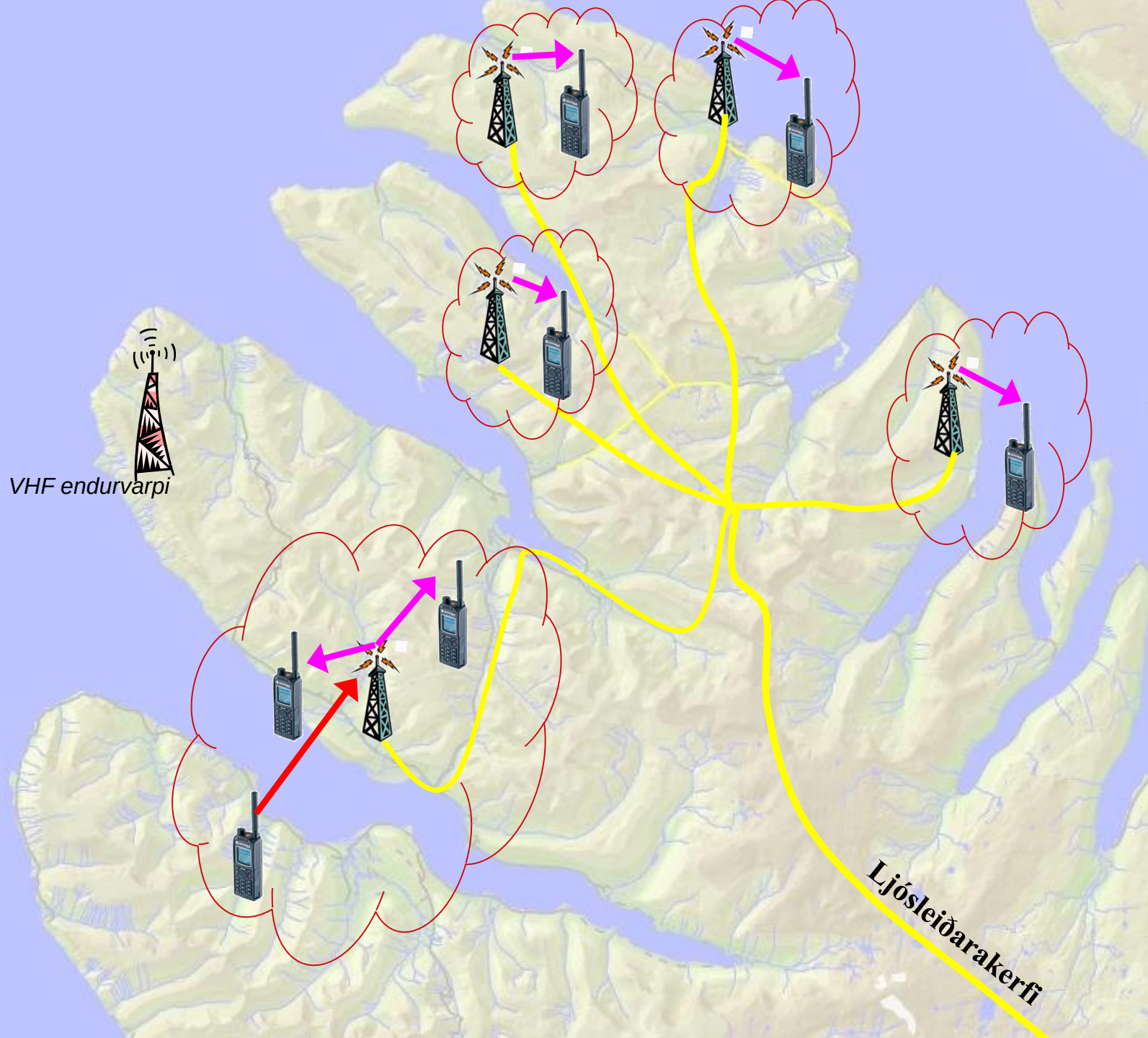
Fjarskipti



VHF endurvarpi



Ljósleiðarakerfi





Tvær lausnir

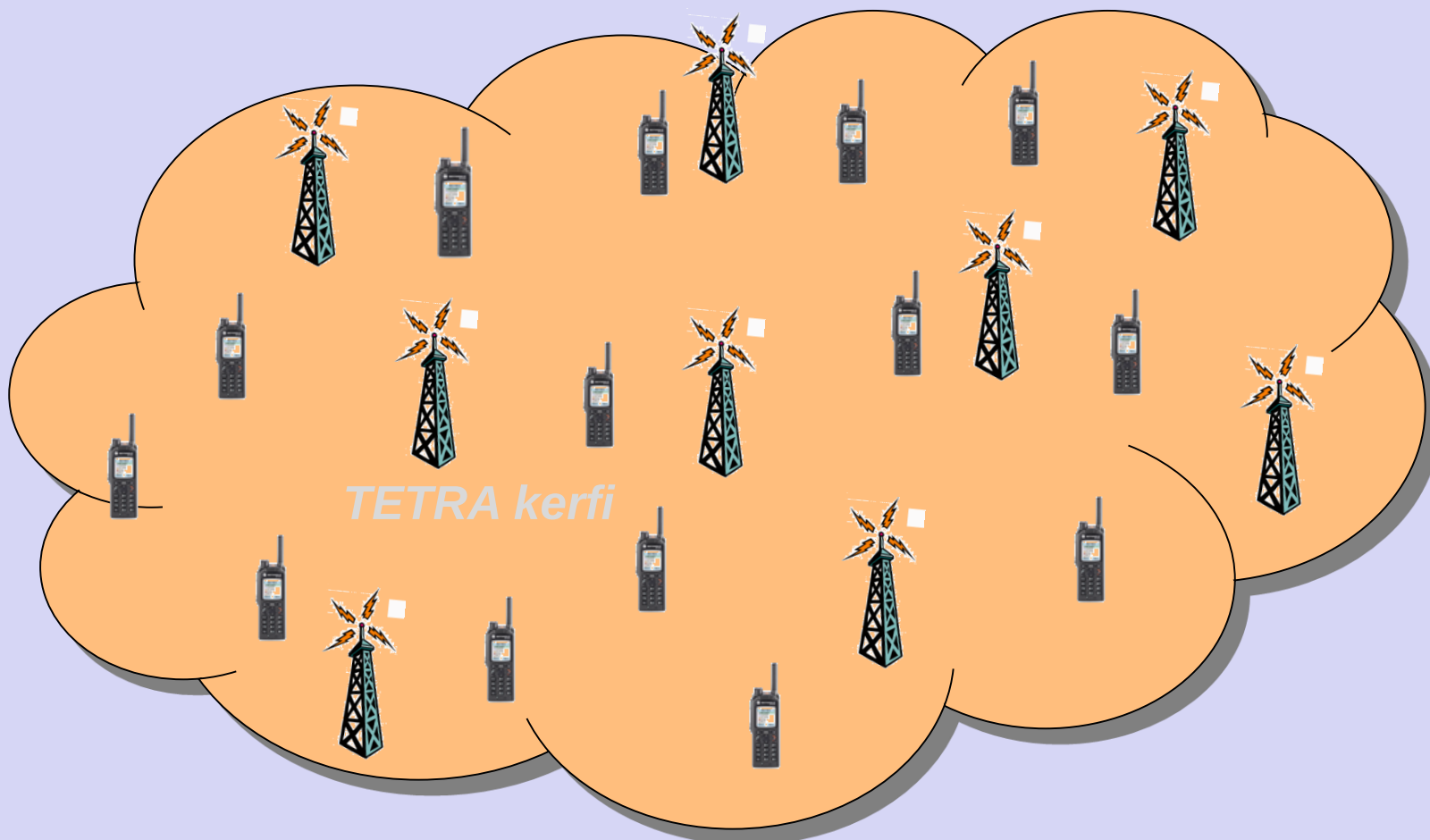
Útfærsla 1





Fyrir rof á ljósleiðara

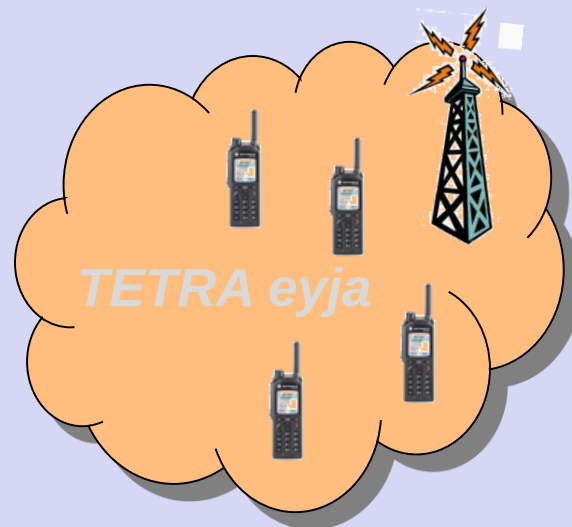
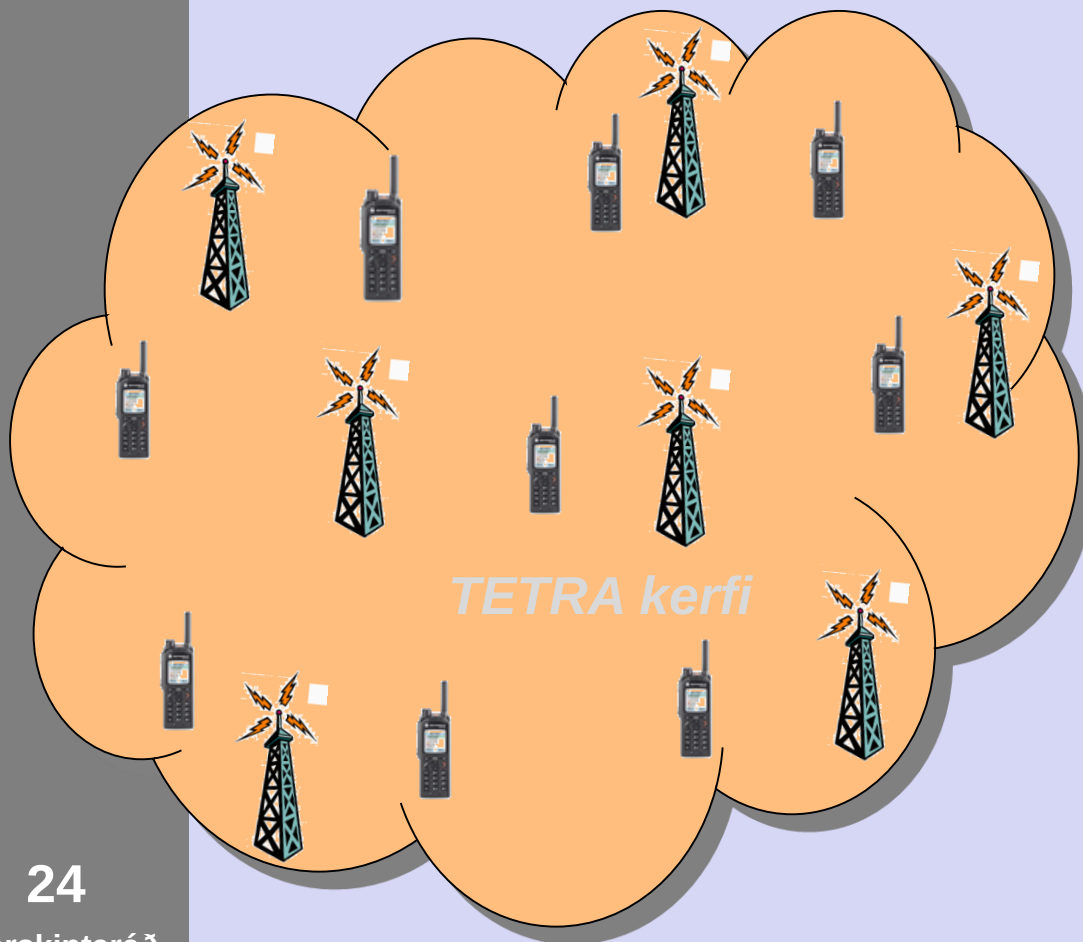
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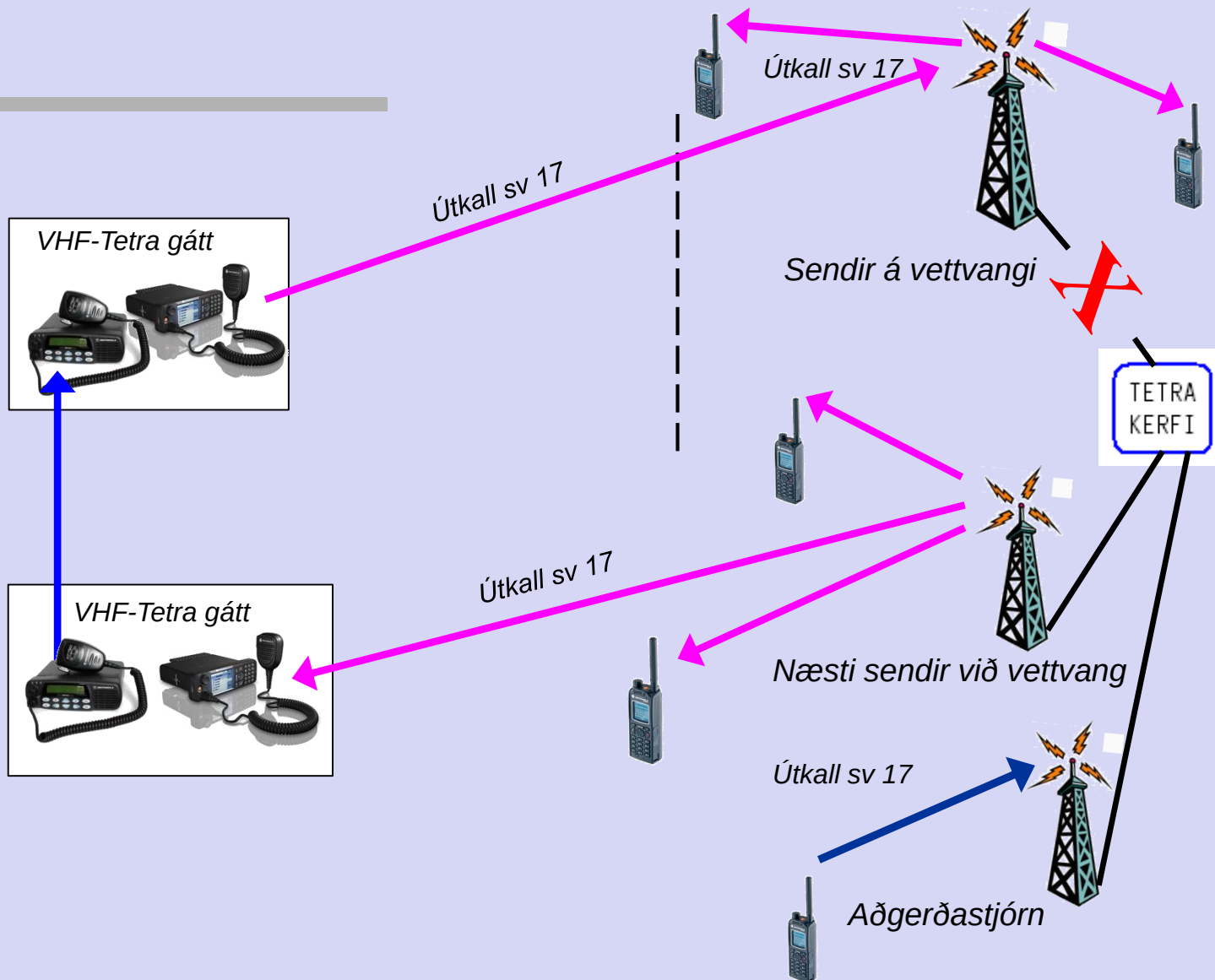
Rof á ljósleiðara

Fjarskipti



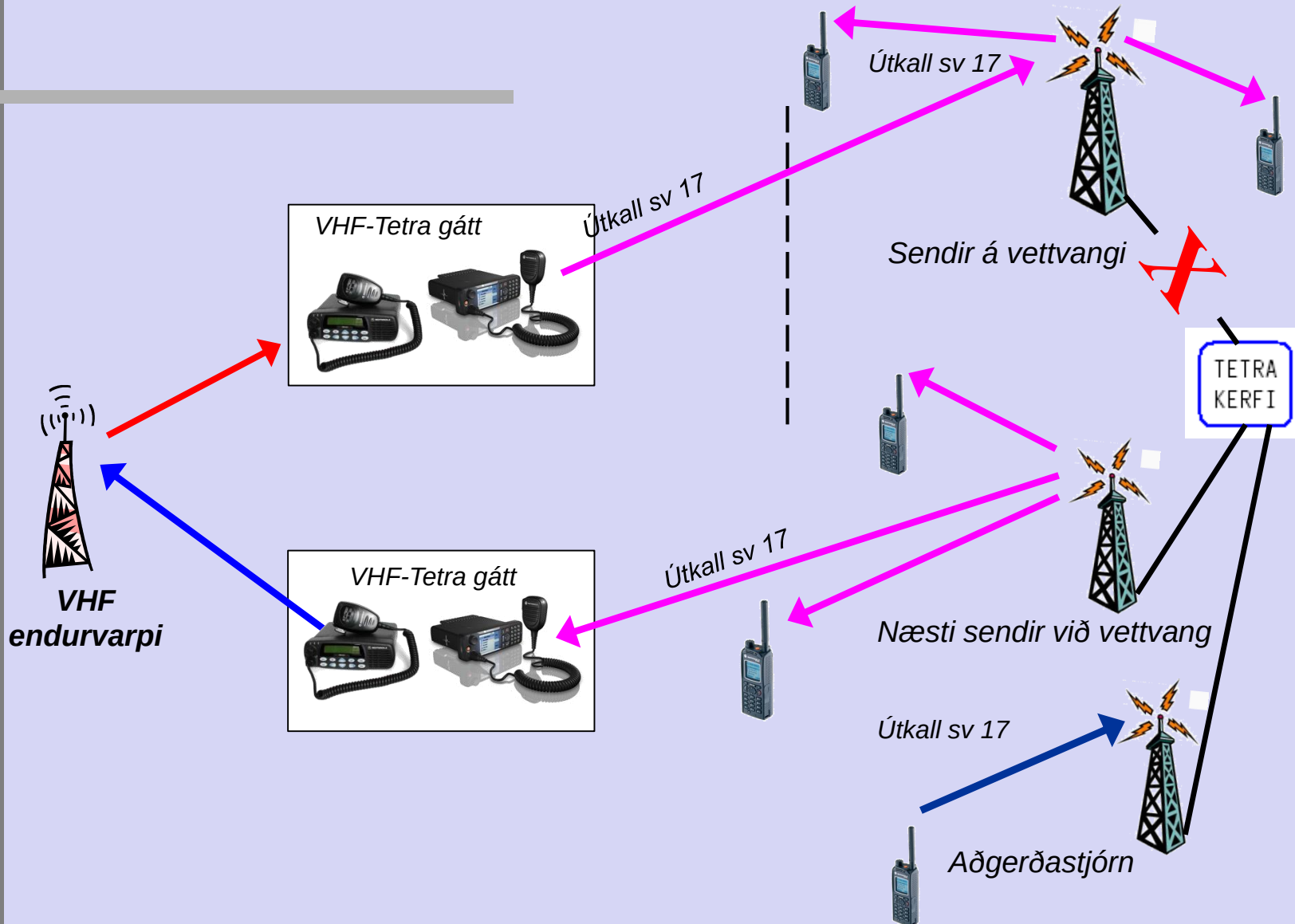


Talhópur á eyjusendi yfir í Tetra kerfið





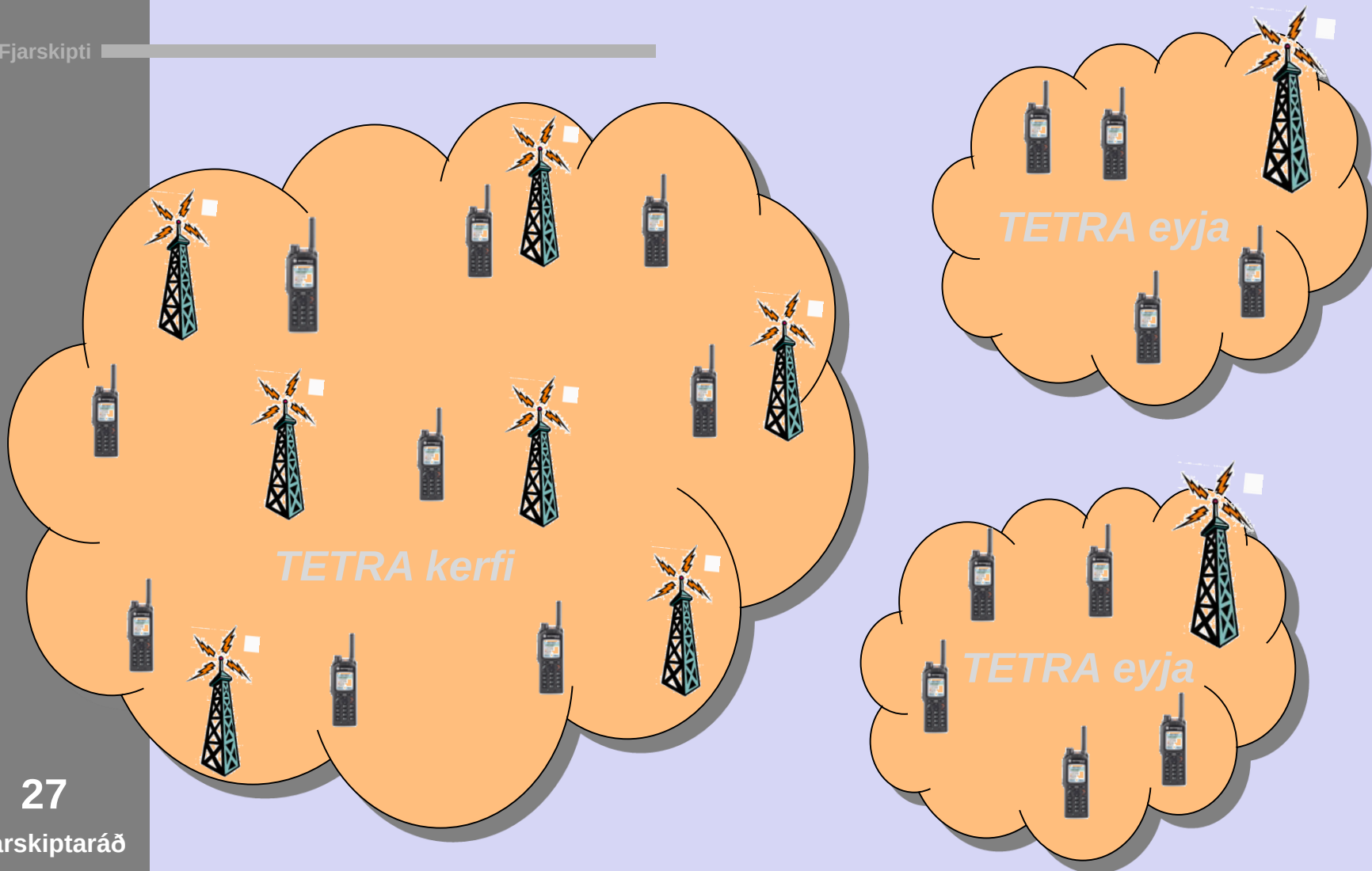
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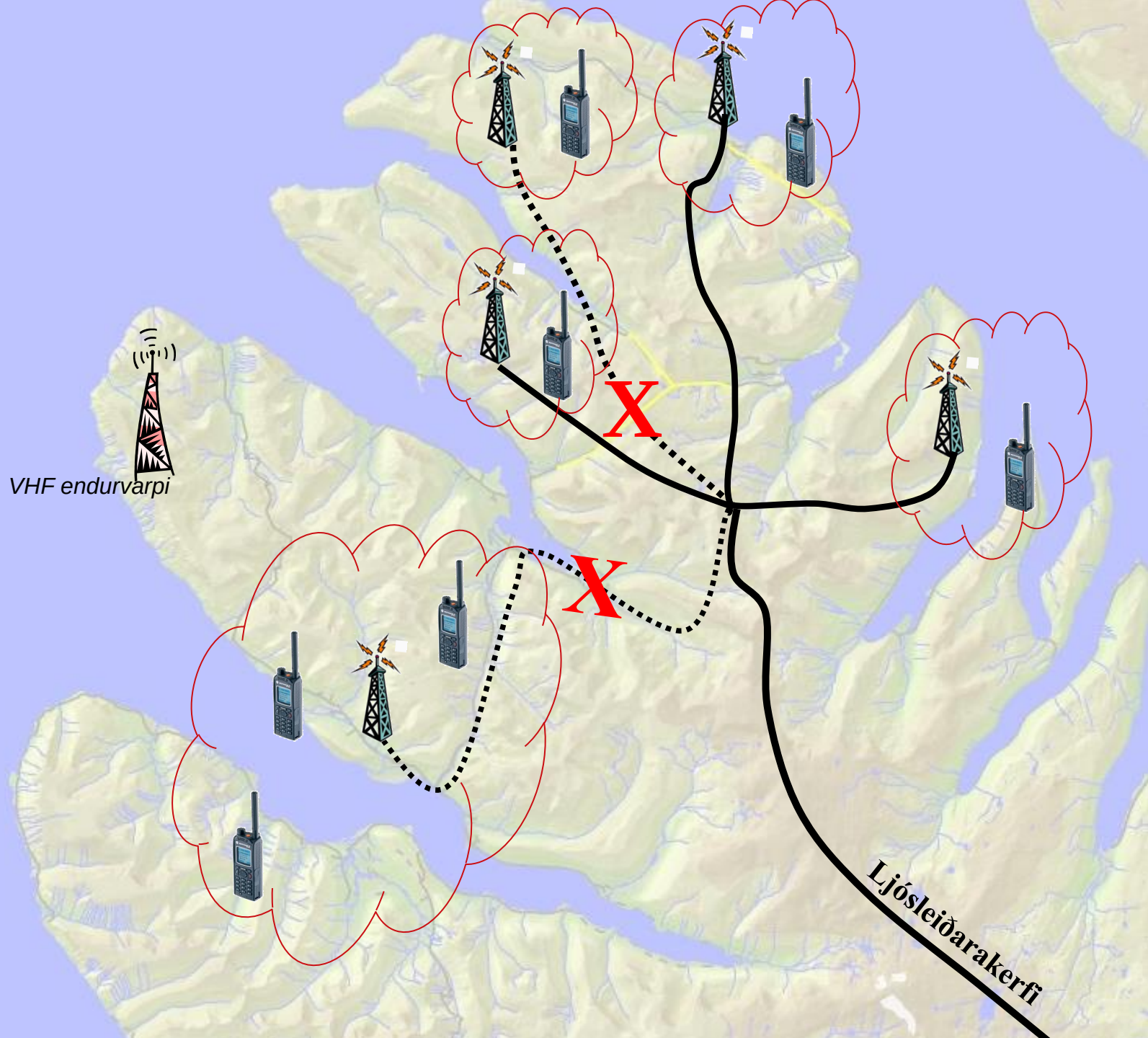


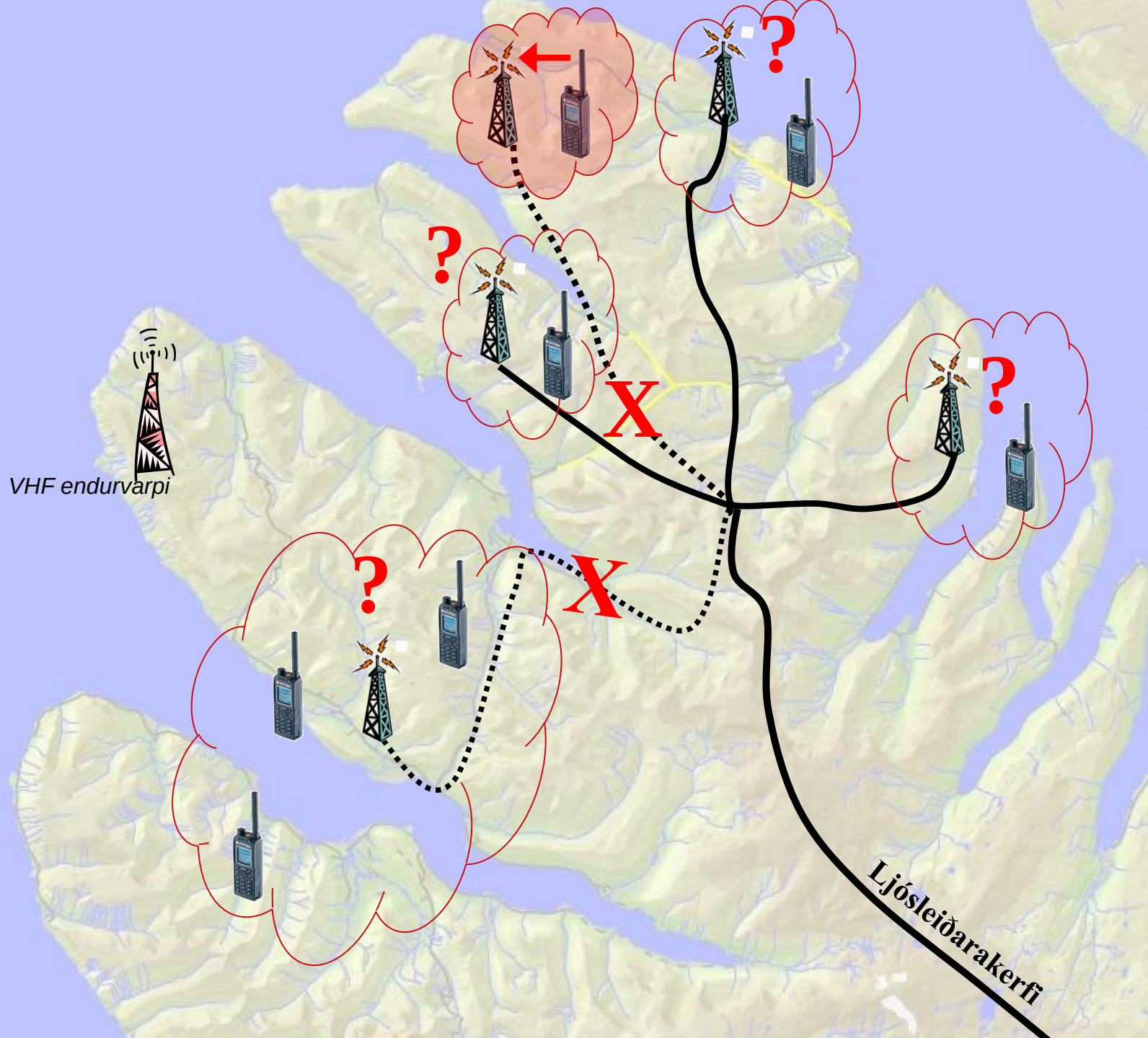


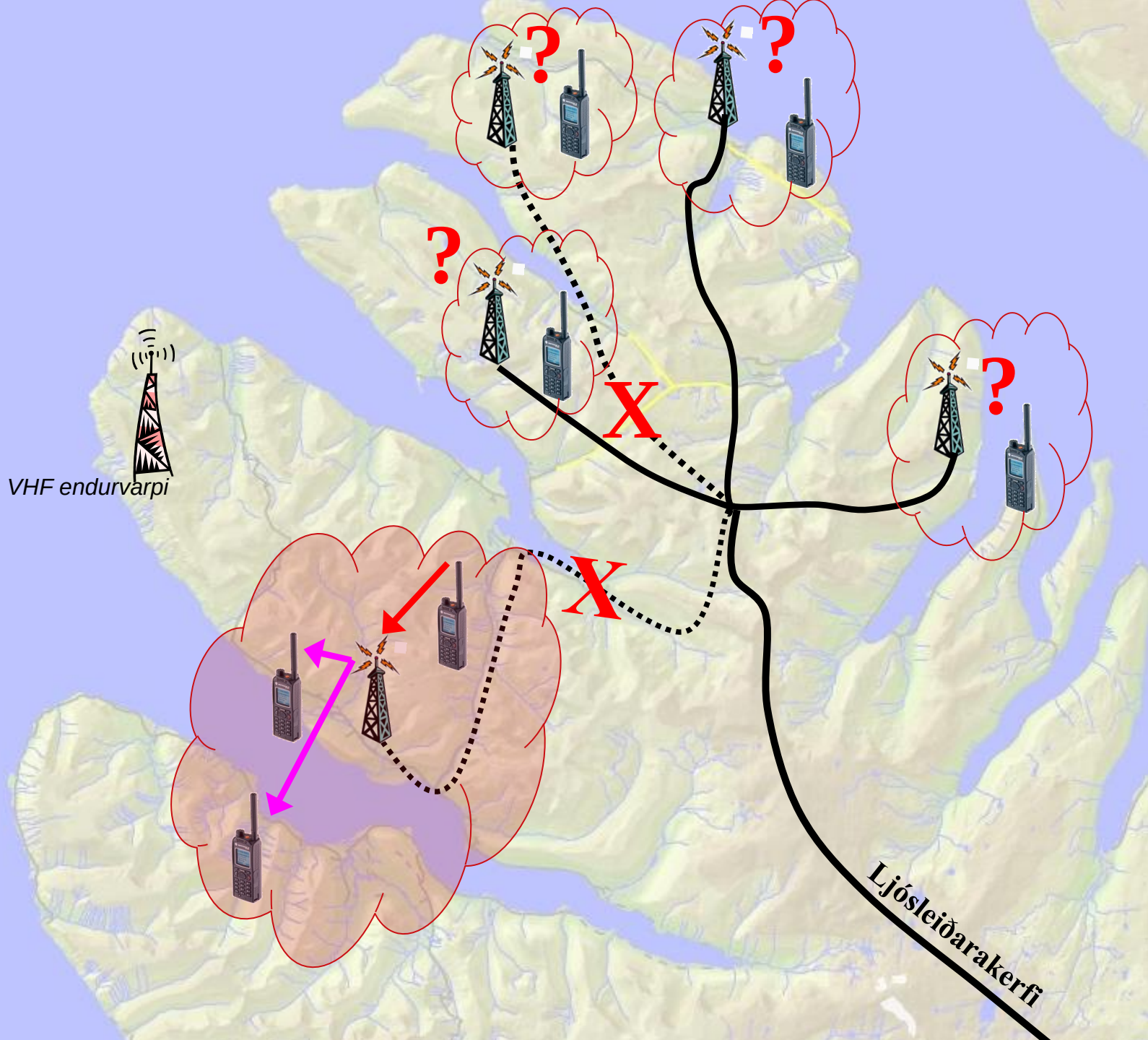
Rof á ljósleiðara

Fjarskipti









1
VHF gátt í kerfi


2
VHF gátt í kerfi


3
VHF gátt í kerfi



 VHF endurvarpi

Ljósleiðarakerfi

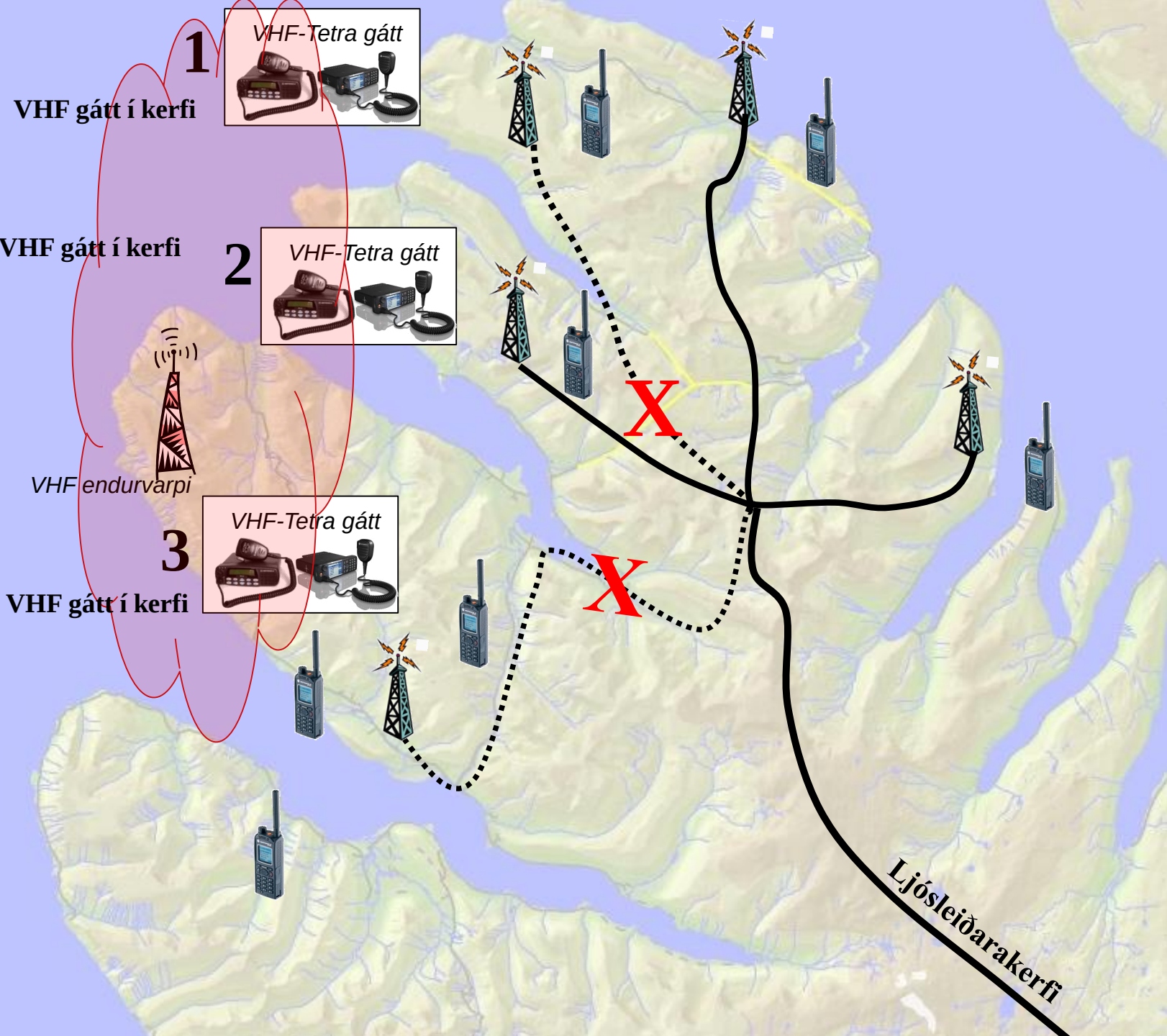


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Fjarskipti

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Fjarskiptaráð



VHF gátt í kerfi

1

VHF-Tetra gátt



VHF gátt í kerfi

2

VHF-Tetra gátt



VHF endurvarpi



VHF gátt í kerfi

3

VHF-Tetra gátt



Ljósleiðarakerfi

VHF gátt í kerfi

1

VHF-Tetra gátt



VHF gátt í kerfi

2

VHF-Tetra gátt



VHF endurvarpi



3

VHF-Tetra gátt



VHF gátt í kerfi

Ljósleiðarakerfi

VHF gátt í kerfi

1

VHF-Tetra gátt



VHF gátt í kerfi

2

VHF-Tetra gátt



VHF endurvarpi



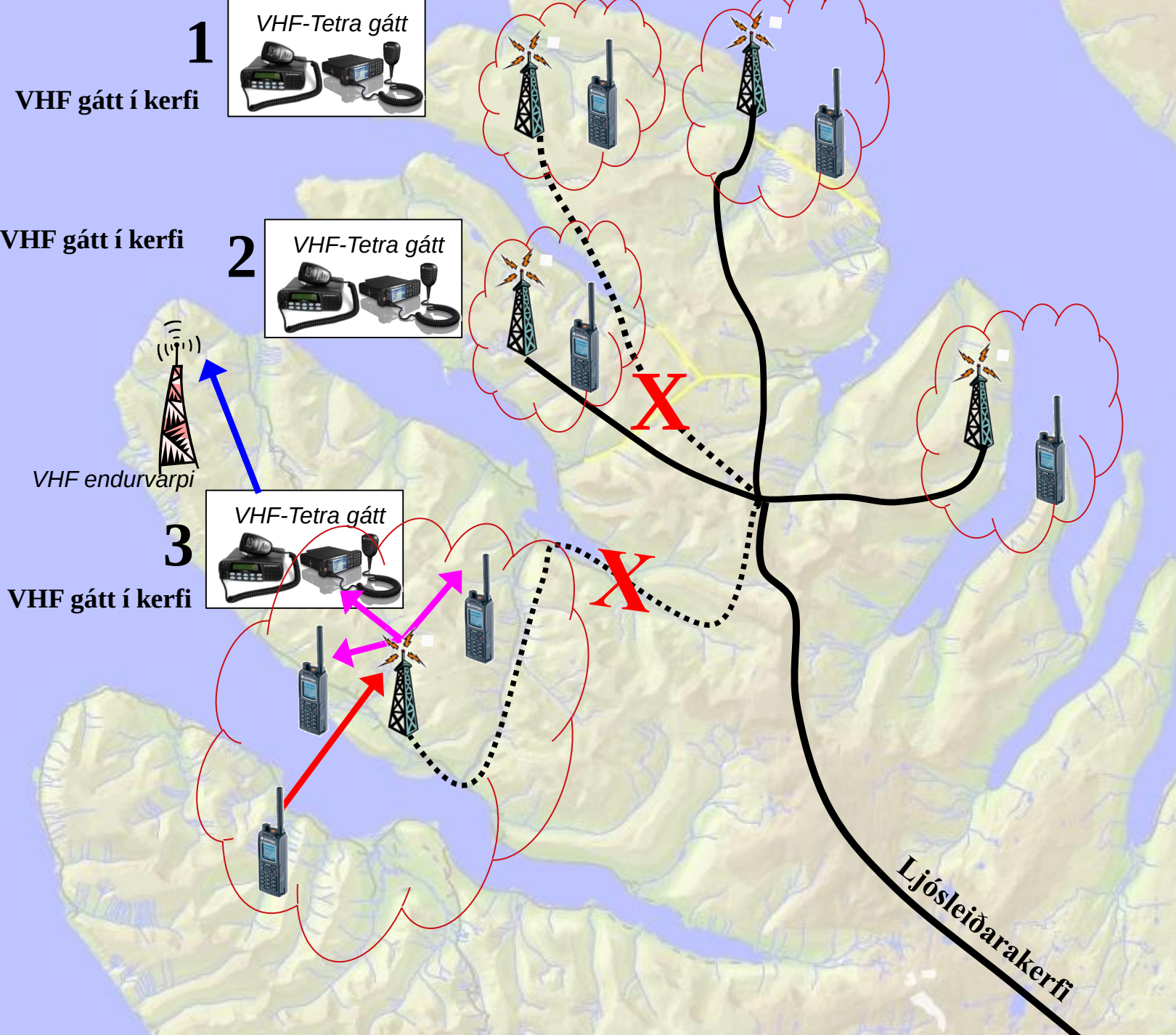
VHF gátt í kerfi

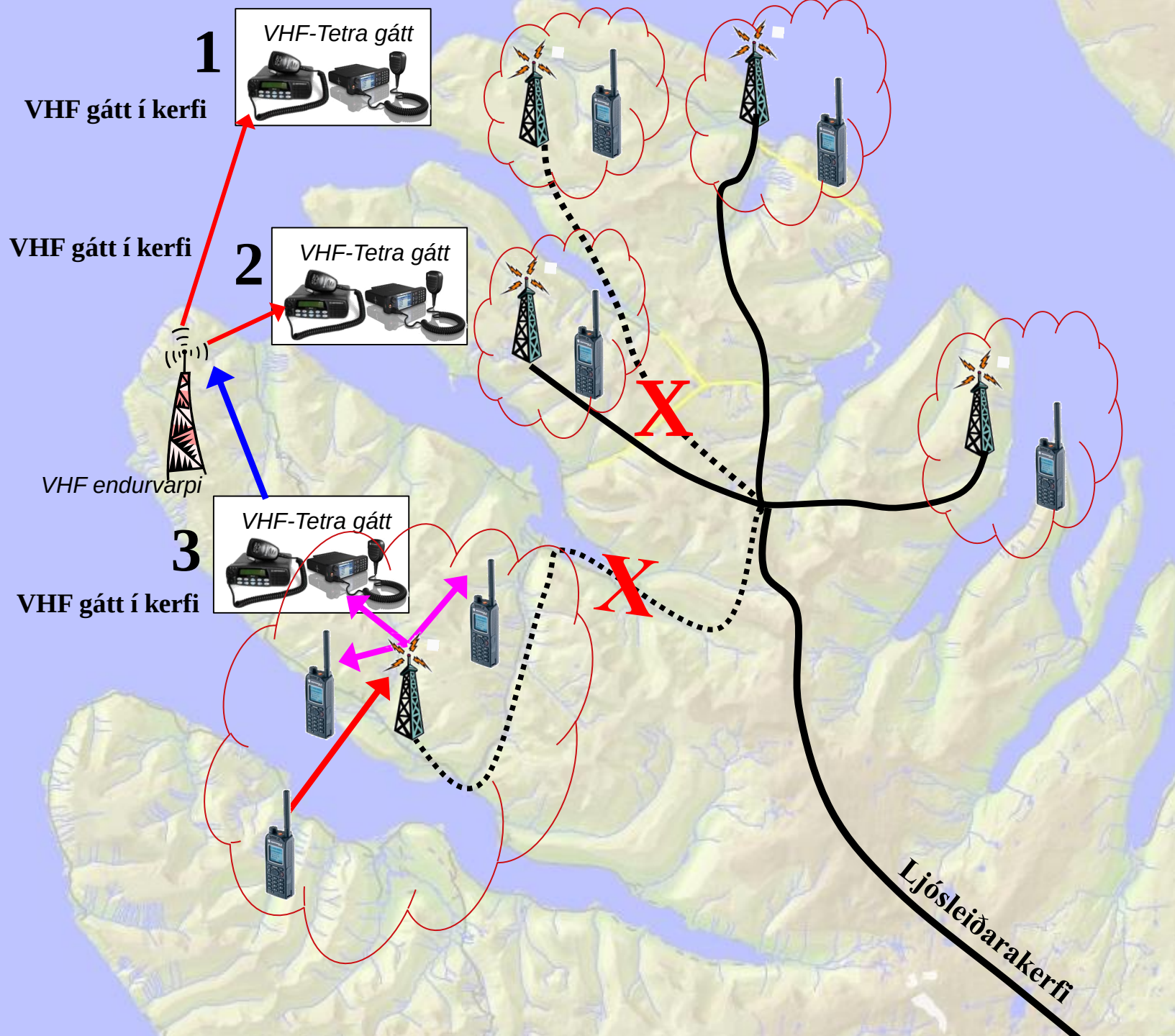
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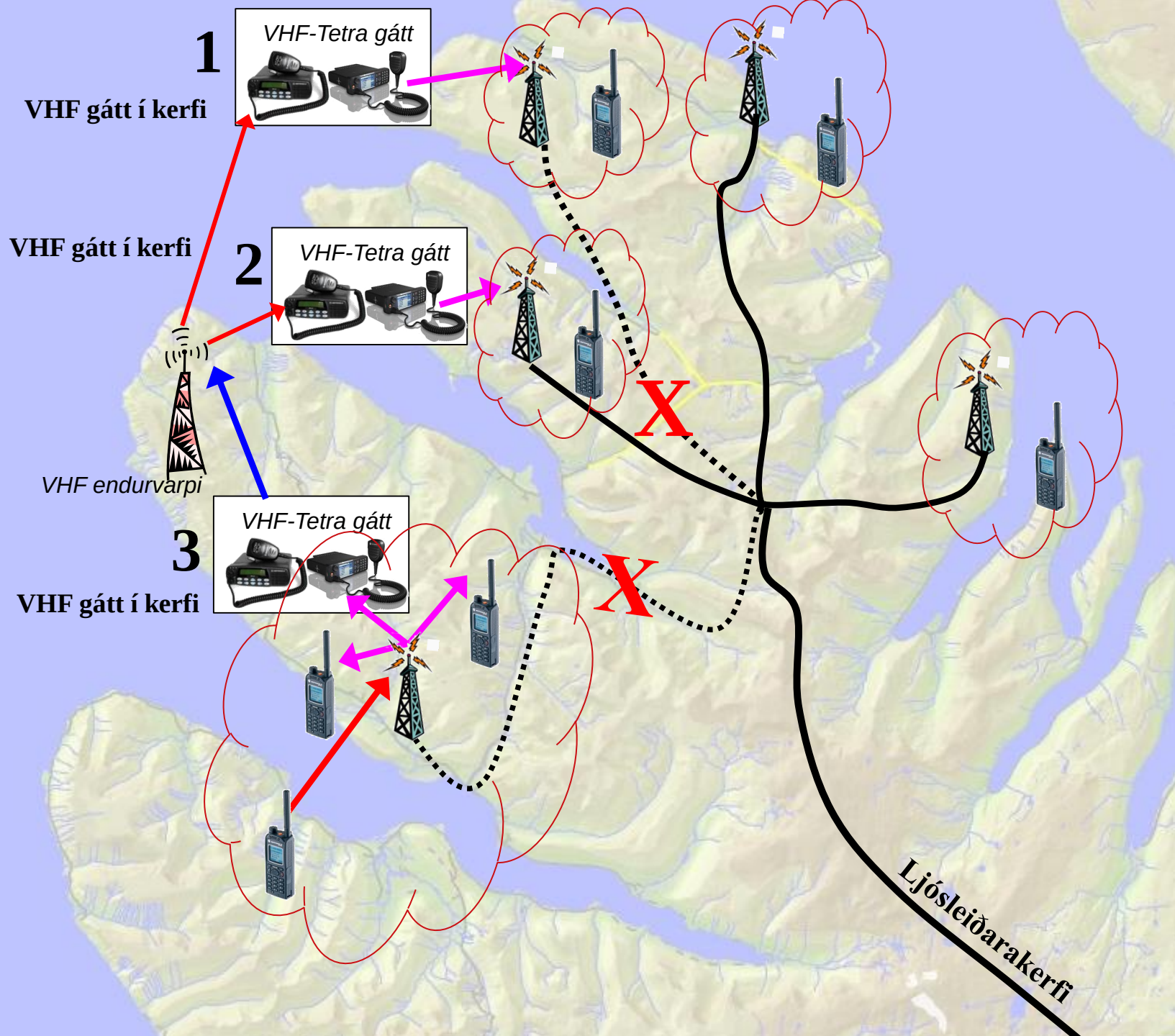
VHF-Tetra gátt



Ljósleiðarakerfi







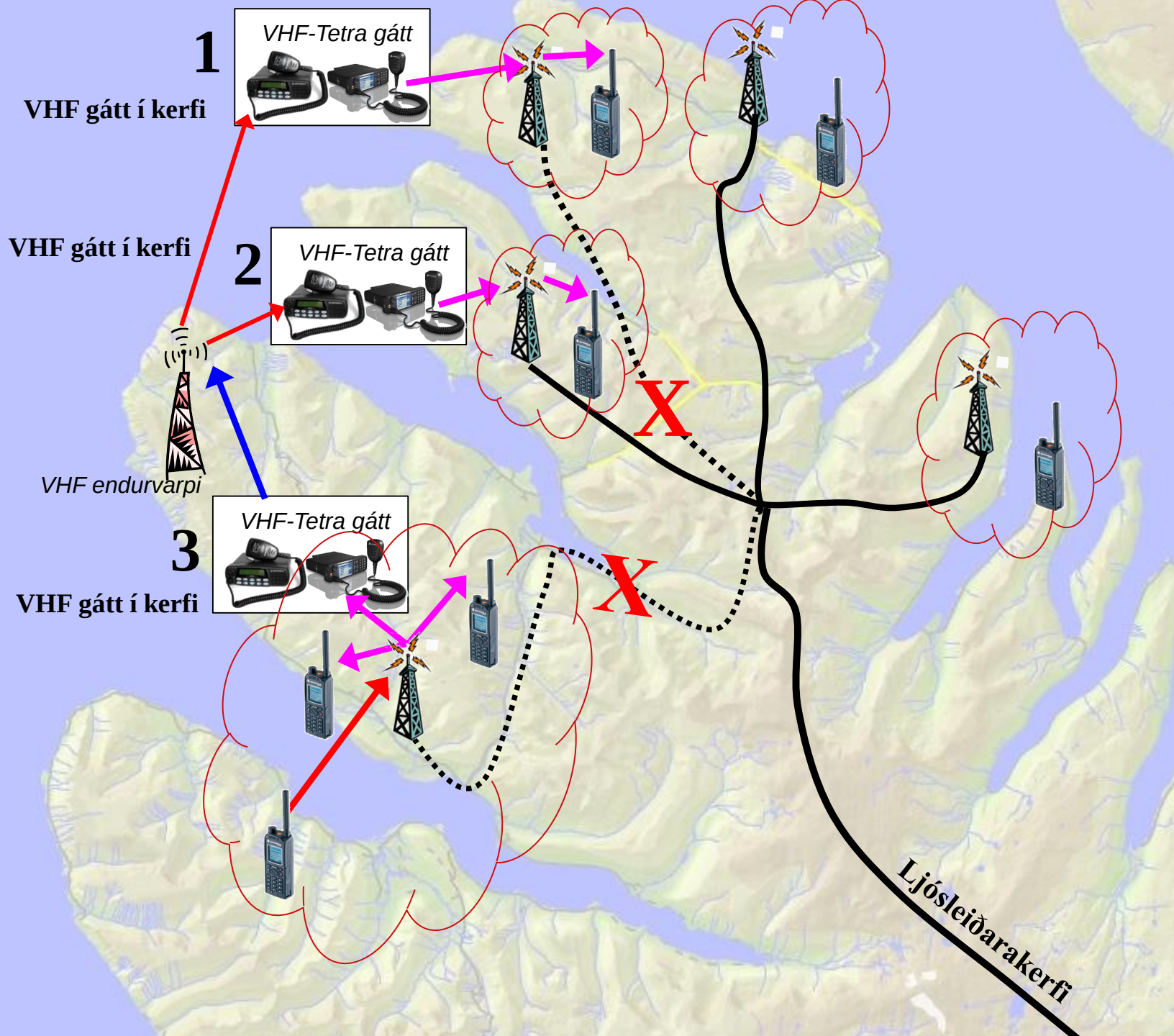


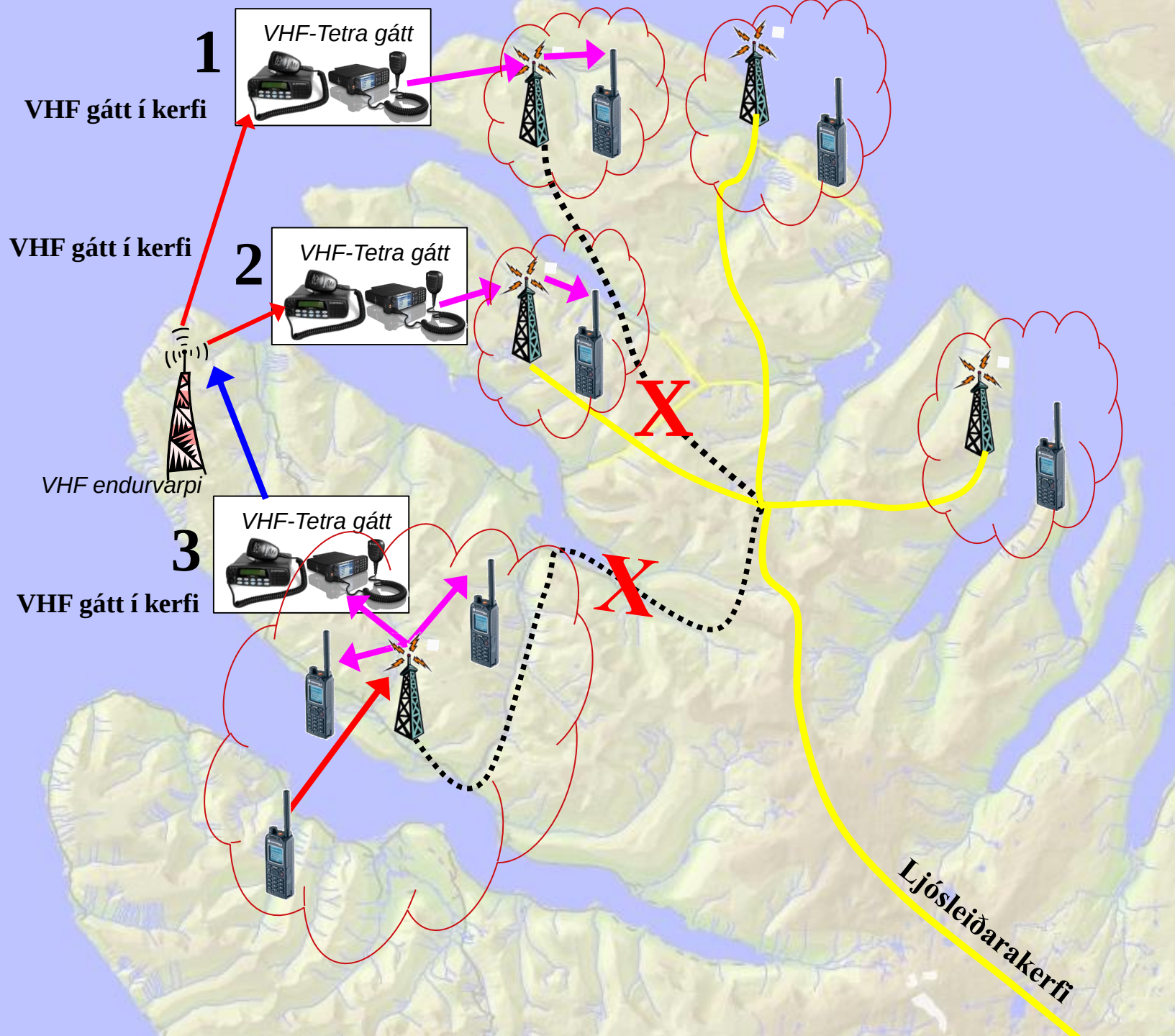
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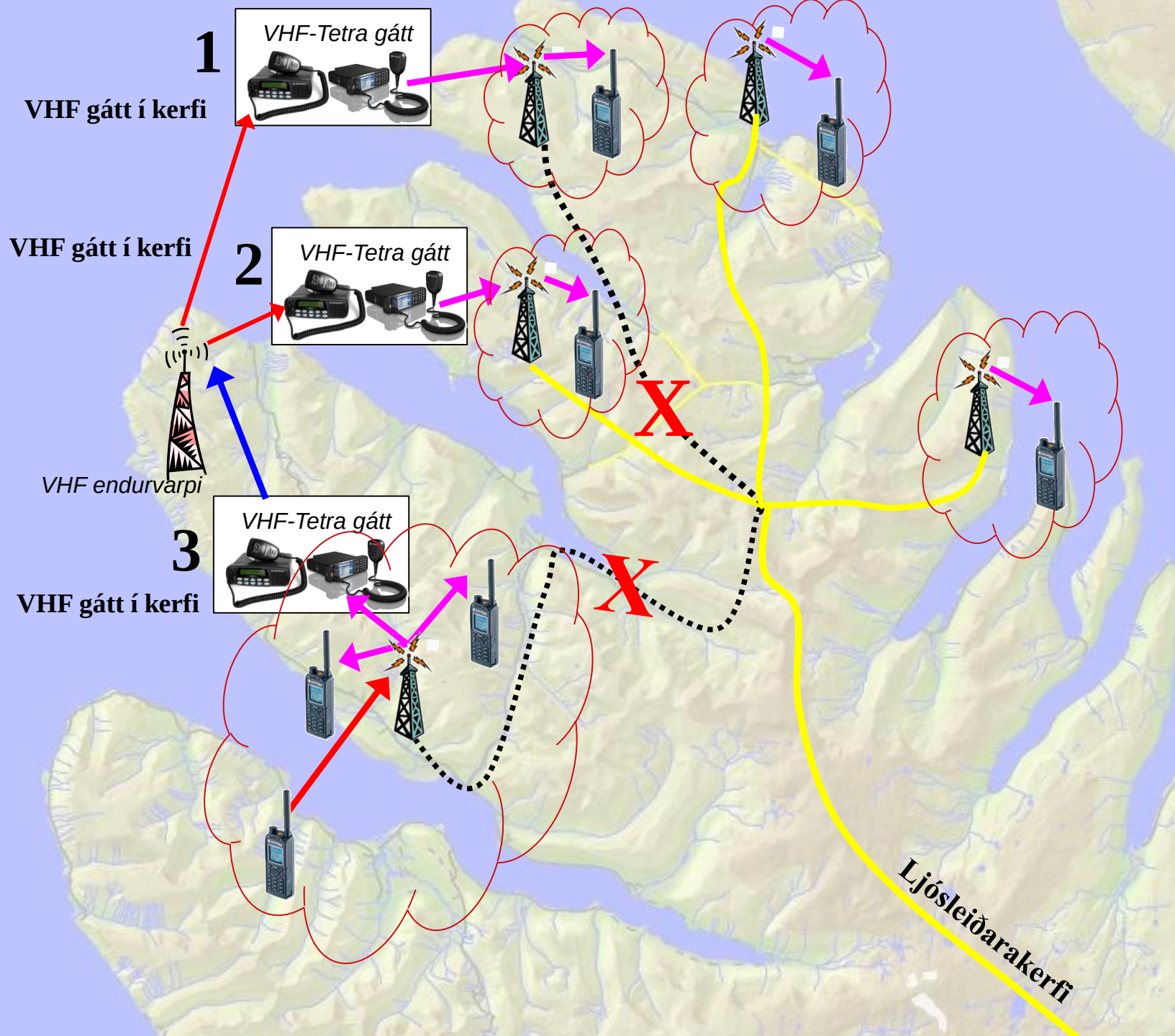
Fjarskipti

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Fjarskiptaráð









Raunverulegt dæmi





Tvær lausnir

Útfærsla 2

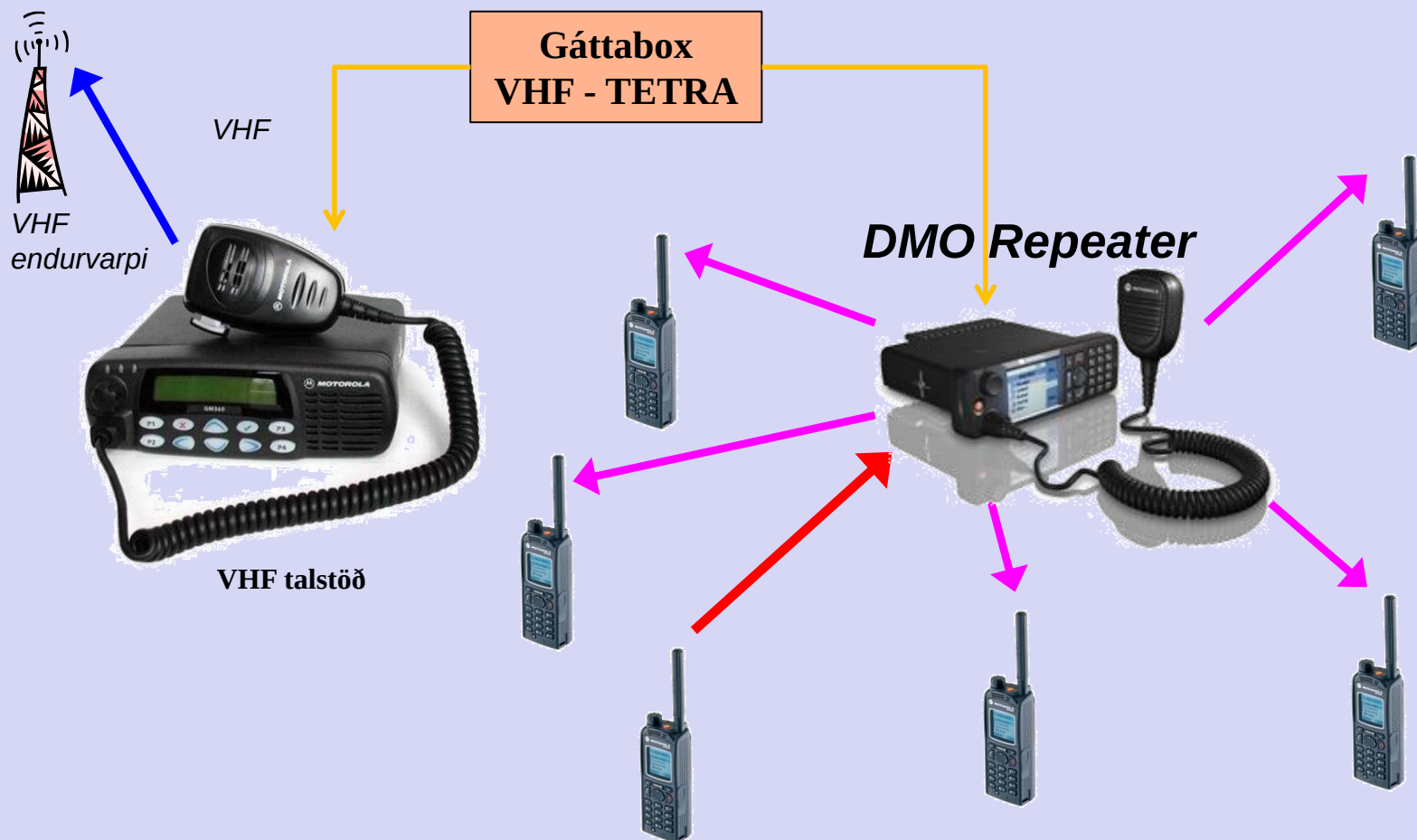
*Sendar sem voru í eyjuvirkni áður eru nú
búnir á varaafli og því óvirkir*





Tetra DMO endurvarpi yfir í VHF

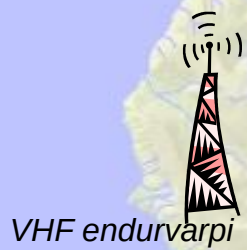
Fjarskipti



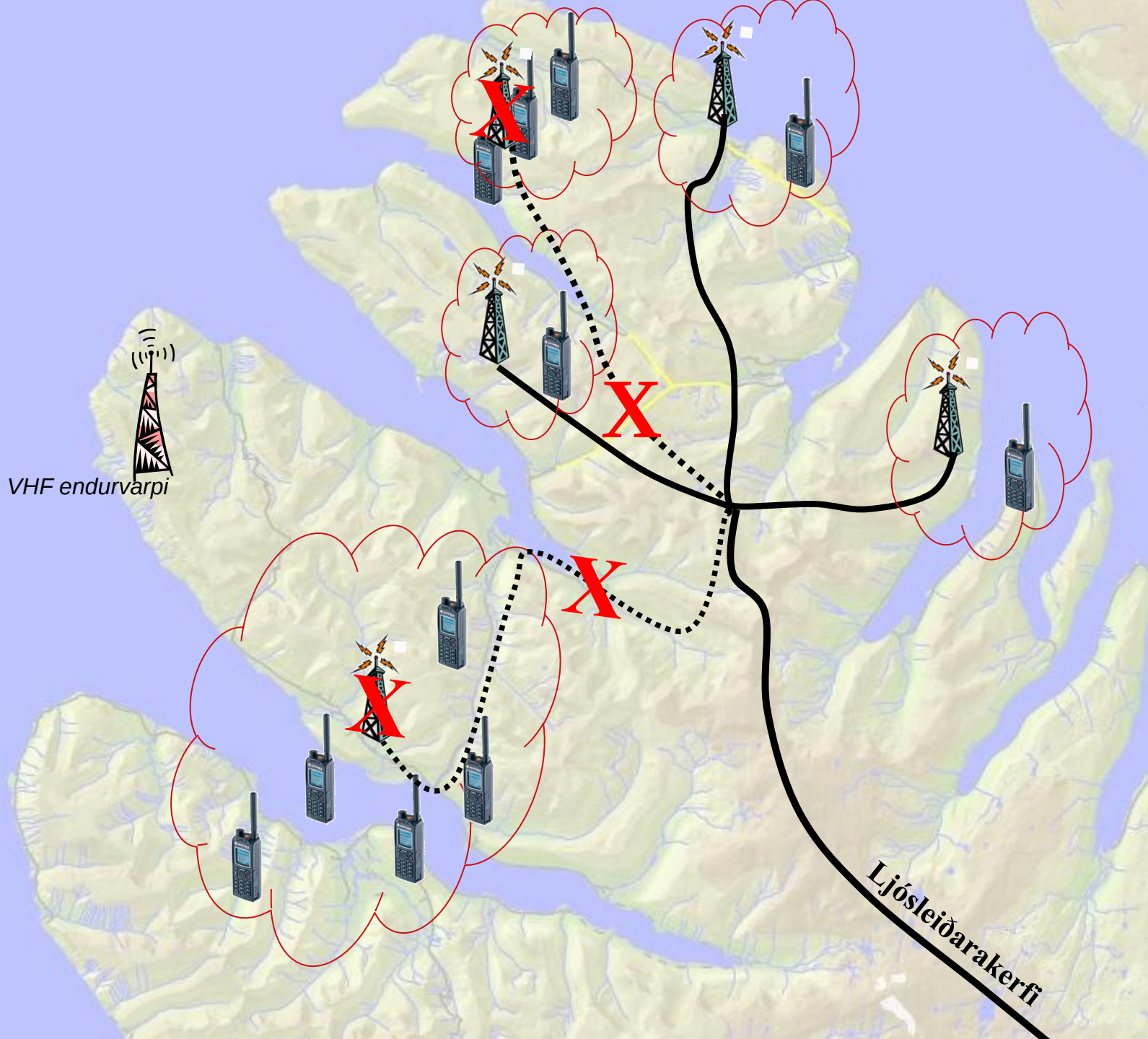


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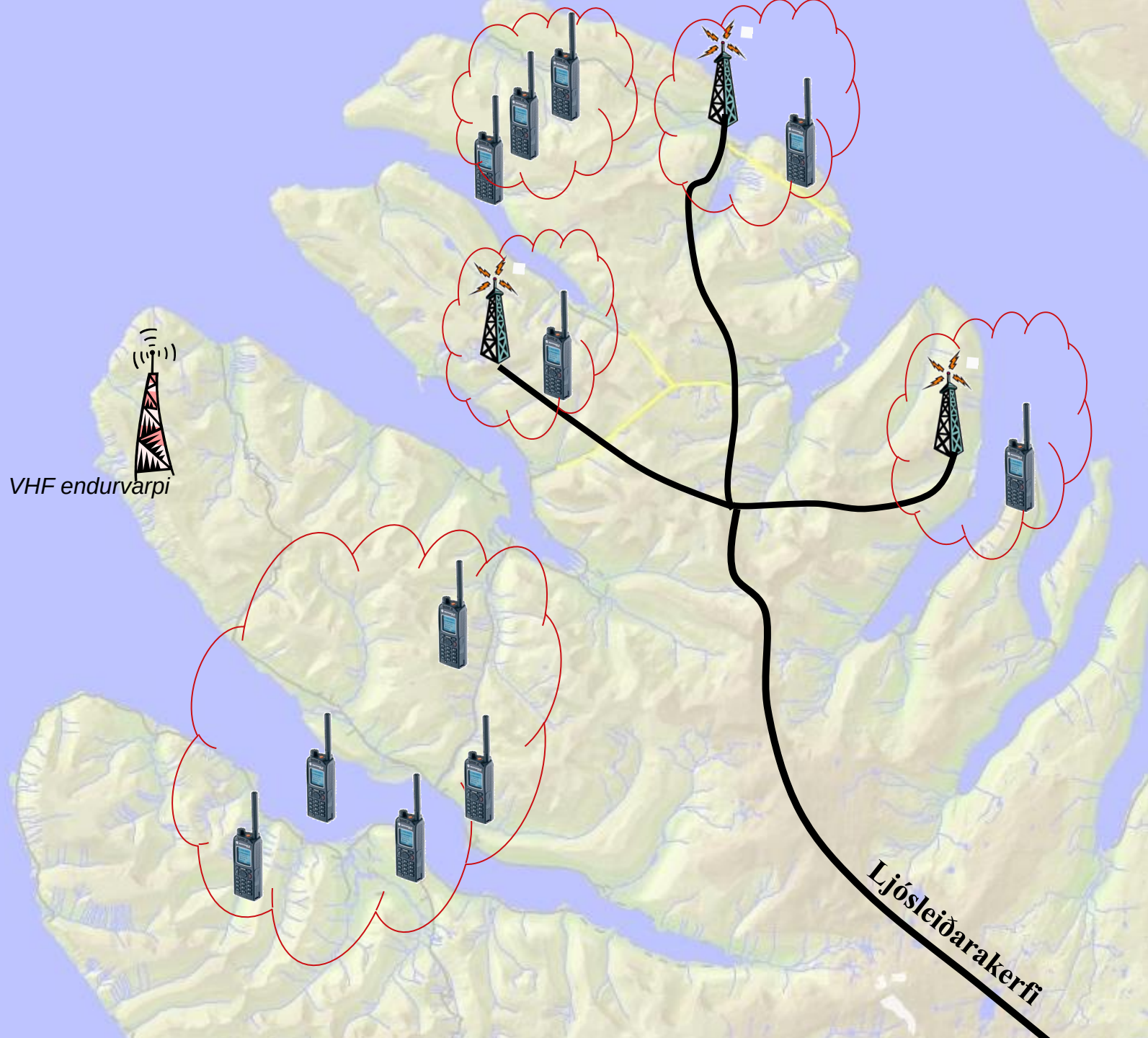
Fjarskipti



VHF endurvarpi



Ljósleiðarakerfi



DMO endurvarpi

1

VHF-Tetra gátt



VHF gátt í kerfi

2

VHF-Tetra gátt



VHF endurvarpi



3

VHF-Tetra gátt



DMO endurvarpi

Ljósleiðarakerfi

DMO endurvarpi

1

VHF-Tetra gátt



VHF gátt í kerfi

2

VHF-Tetra gátt



VHF endurvarpi



3

VHF-Tetra gátt



DMO endurvarpi



Ljósleiðarakerfi

DMO endurvarpi

1

VHF-Tetra gátt



VHF gátt í kerfi

2

VHF-Tetra gátt



VHF endurvarpi



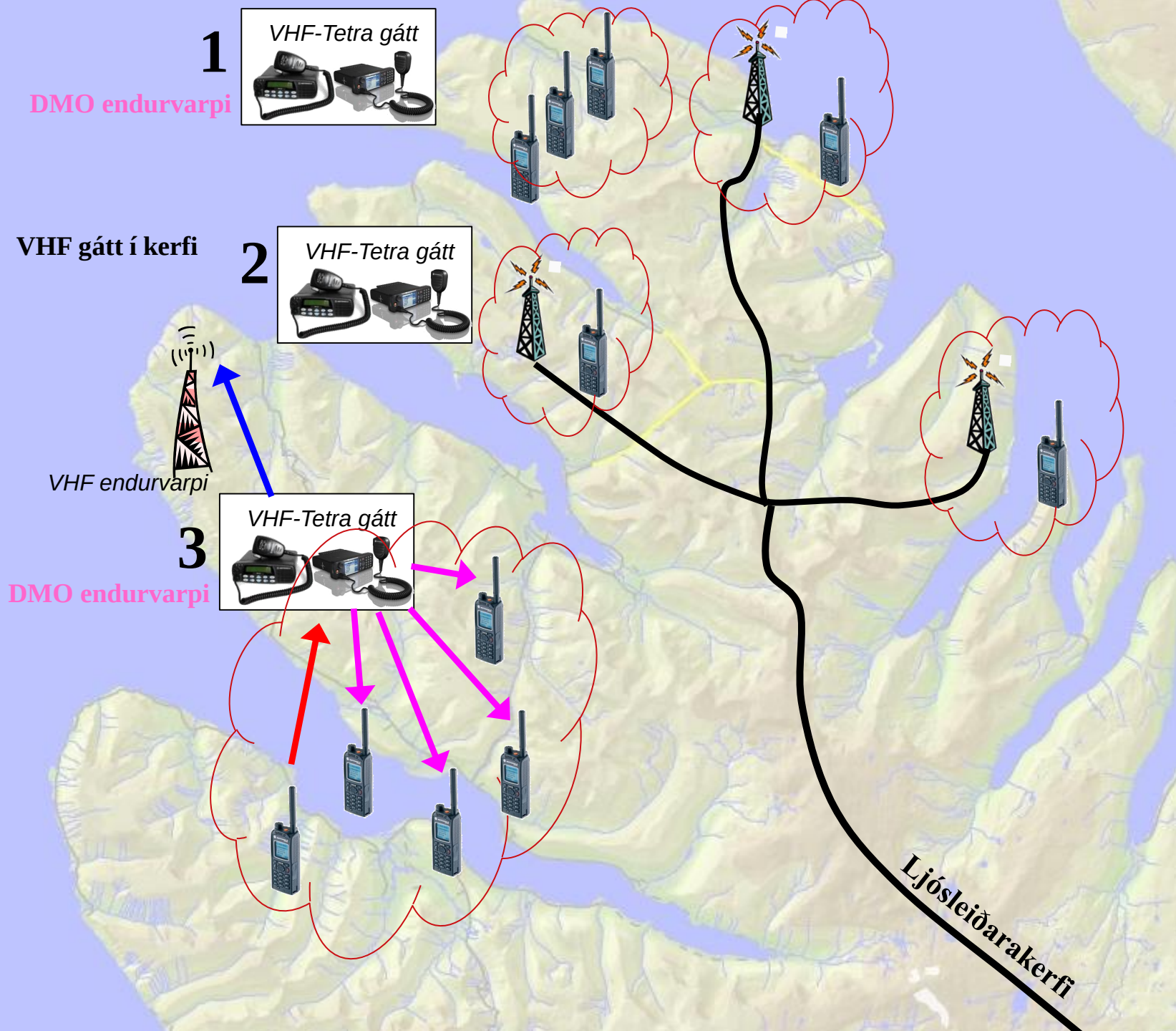
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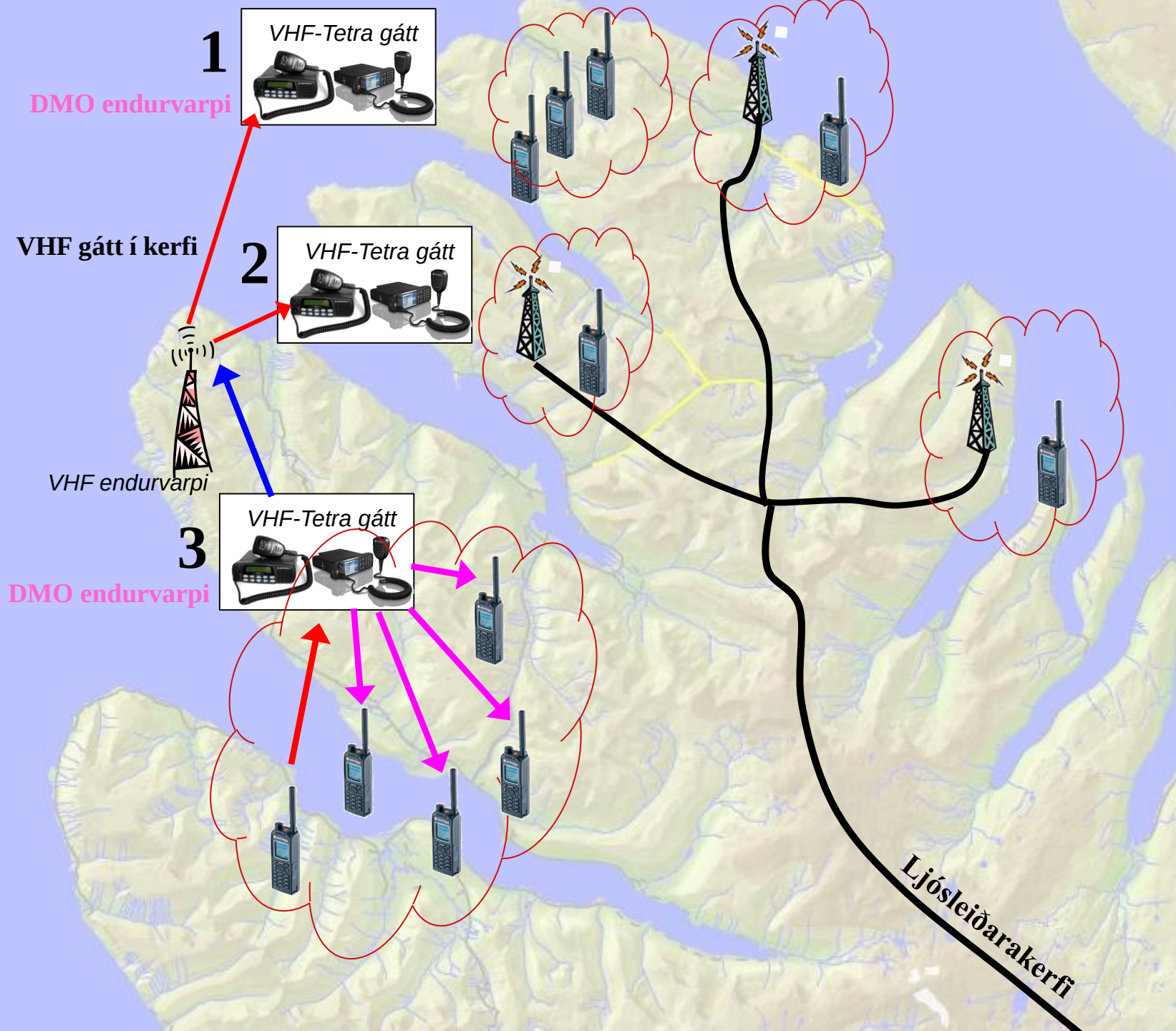
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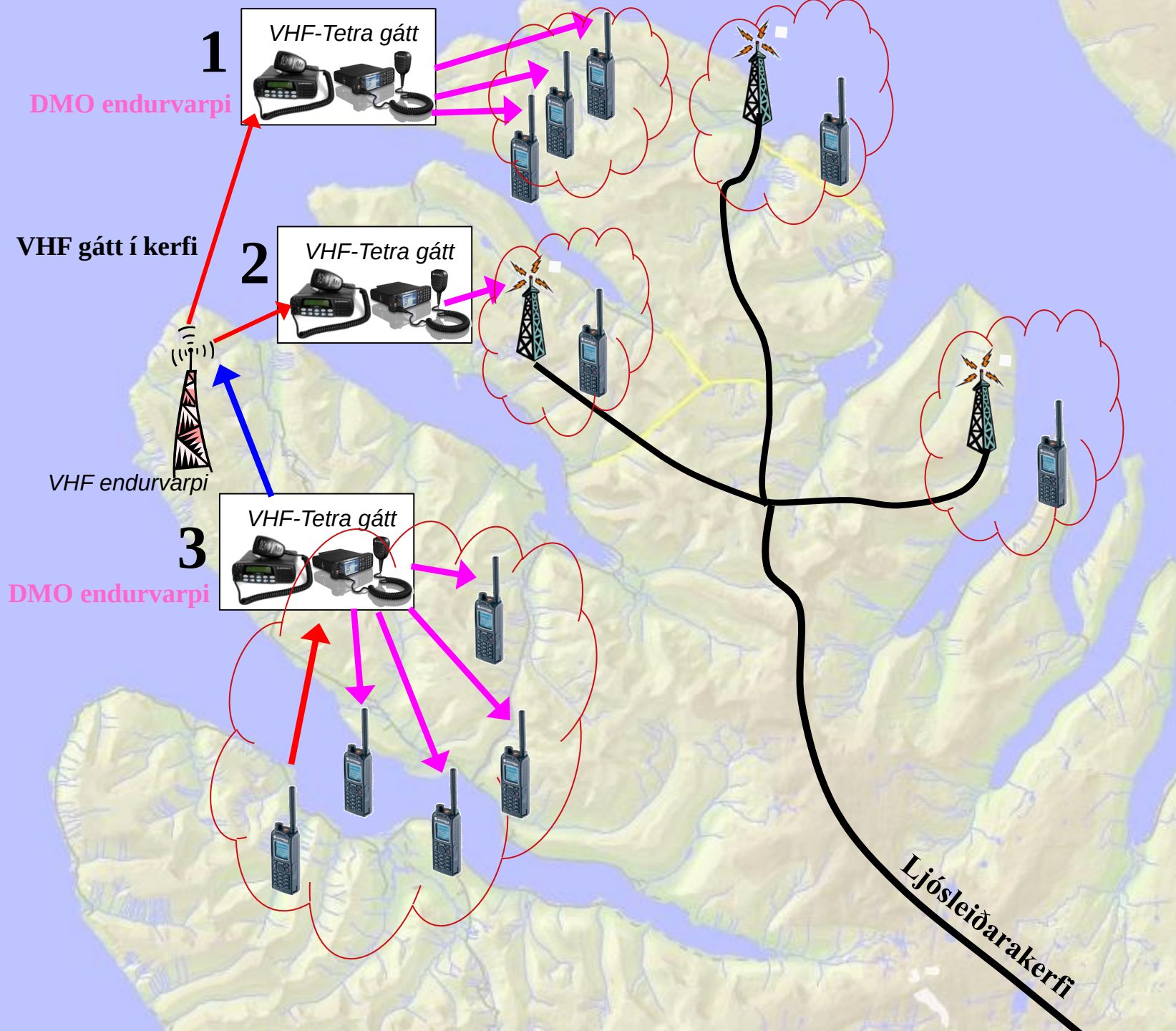


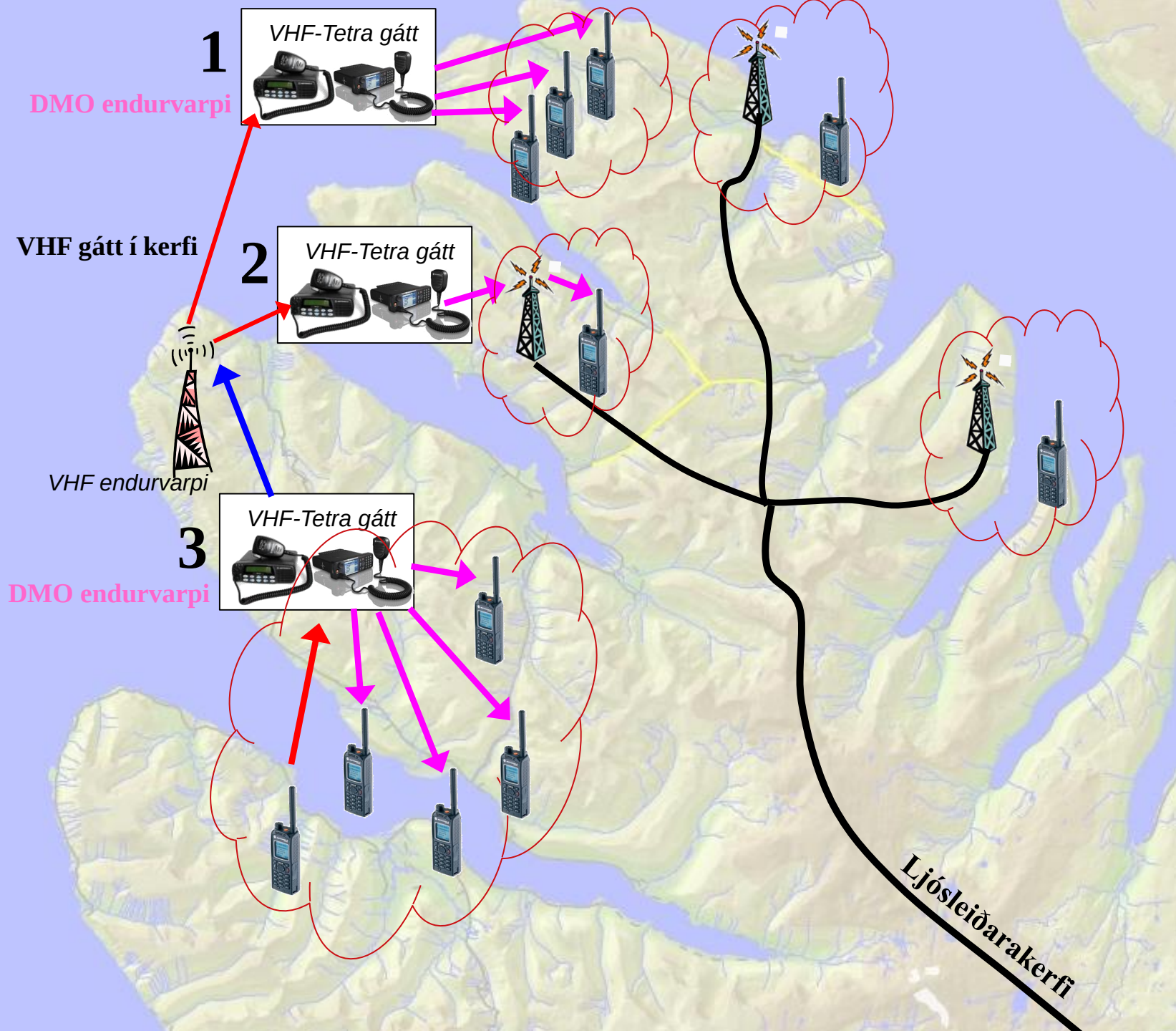
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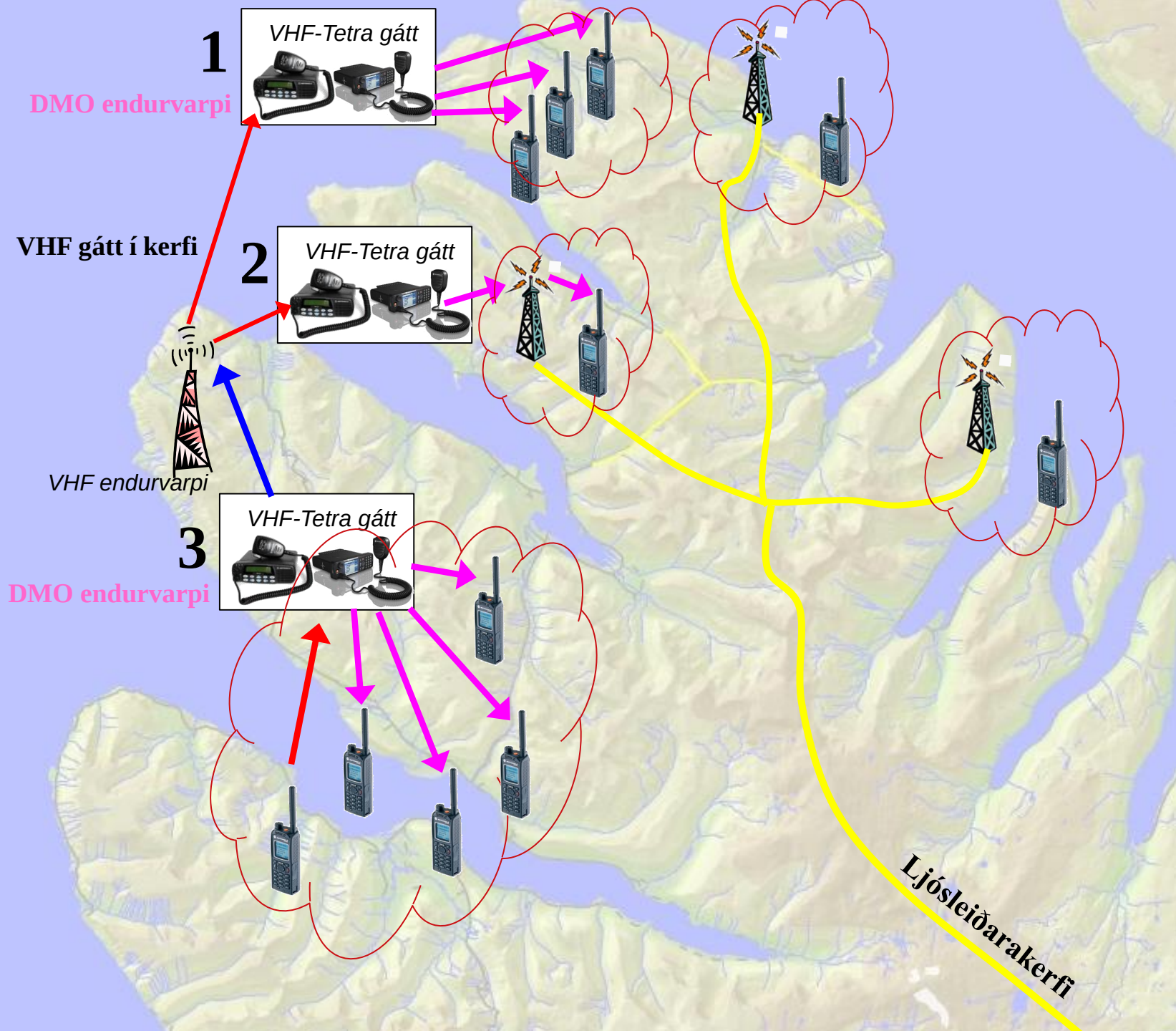
Ljósleiðarakerfi

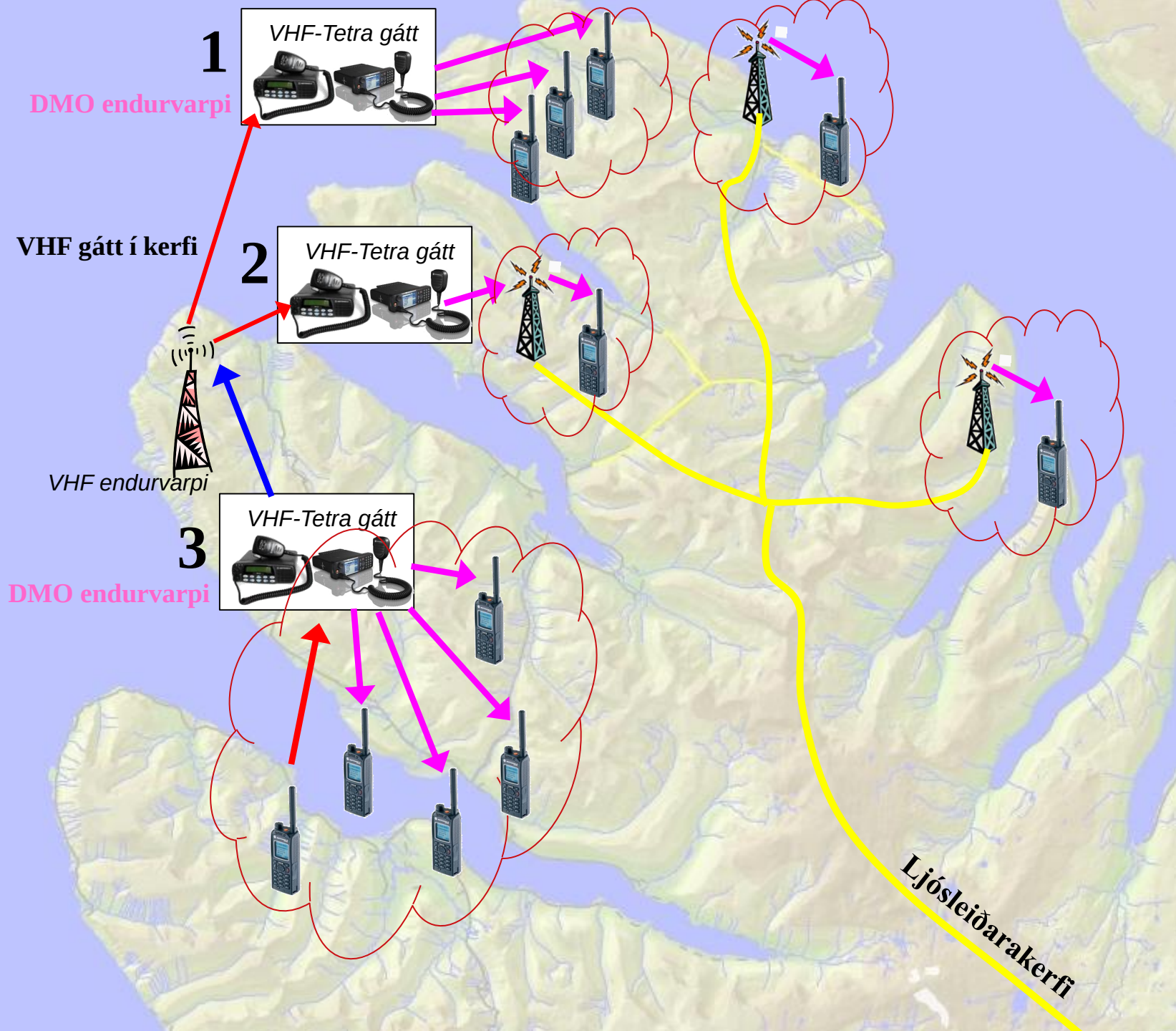














Samantekt

Fjarskipti

- VHF Tetra gáttir hafa sannað virkni sína í fjölmörgum aðgerðum síðustu árin
- Notkun fleiri en einnar gáttar í sömu lausninni hafa verið prófaðar en ekki í aðgerðum
- Fjarskipti sem fara í gegnum fleiri en eina gátt eru frekar ætluð til samskipta á milli svæða frekar en hröð samskipti innan aðgerðahópa
- Með þessum tveim lausnum er hægt að tryggja samskipti allra viðbragðsaðila sem koma að aðgerðinni



Takk fyrir að hlusta

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