

Zambia & Namibia Camping Safari

Trip Code: NCC

Version:



WILDLIFE



GUIDED GROUP



LEISURELY



HIGHLIGHTS

- Surround yourself with the wildlife highlights of Southern Africa on this splendid safari journey, including the great Etosha National Park
- See the sunrise at the dunes of Sossusvlei, hike up Dune 45 and camp at Spitzkoppe in Namibia
- Witness the incredible Victoria Falls, one of the world's largest waterfalls
- Seek out migrating elephants of Caprivi and black rhinos in Etosha

AT A GLANCE

- 15 days sightseeing with safari game drives and short walks and over 3000km of overlanding in between
- Join at Livingstone, End in Windhoek

ACCOMMODATIONS & MEALS

VIEW DATES, PRICES & BOOK YOUR HOLIDAY HERE

Introduction

We start our amazing Southern African overland adventure holiday at one of the world's largest and most majestic of all waterfalls - Victoria Falls on the Zambezi River. From this thunderous beginning we travel west into the wilderness of Namibia's Caprivi Strip, cutting through Angola and Botswana, famous for its migrating elephants and habitat for the Wild Africa Dog. Our next stop is the vast, wildlife rich pans of Etosha National Park. Where the waterholes bustle with African big game we are sure to get our first glimpse of big cats, dusty elephants and plain game such as antelope and giraffe. Moving deeper into Namibia we visit Swakopmund, the stunning sand dunes at Sossusvlei and desert camping under the incredible African skies. We then have two nights in the Namib Desert to appreciate its beauty before we continue to our final stop in the chilled out capital city of Windhoek. Our tour ends having possibly seen the big five and covered over 2800km of overlanding through some of the best of these incredibly wondrous and diverse countries.

If camping isn't your thing, have a look at our sister lodge itinerary: [Namibia Desert, Etosha and Caprivi Lodge Safari](#)

This itinerary is the first section of the longer [Great Southern African Camping Safari](#) which is 21 days and continues on through Botswana and back to Livingstone.

We also offer a lodge version of this too: [Great Southern African Lodge Safari](#)

If you would like further information on when to go to Southern Africa on safari and which trip suits you the best please refer to our detailed guide: [Which safari is right for you?](#)

Is this holiday for you?

Everything in Africa is on a big scale, and to cover the ground necessary, your journey across Southern Africa includes several long drives accompanied by Africa's spectacular scenery. Such drives, including your game drives, can often be on dirt tracks, graded roads and also tar highways. The driving times are indicated on each day. These times do not include stops along the way. We ensure that regular comfort breaks are taken, and stops try to be scheduled to visit interesting towns or sights.

Included in the itinerary are a variety of walks. These walks can be on paved surfaces, uneven sandy dunes or rocky terrain and are always accompanied by your experienced guide. Each walk is paced with

time for your guide to interpret the environment around you. On some walks, it is vital to keep within the group in case of an animal encounter.

The majority of nights you will be camping. Designated campsites have showers and some have a bar or swimming pool. You will need to put your tent up, and help pack up the truck in the mornings. Most of the meals are prepared by the guides and it is good group etiquette to help with preparation and washing up on these days and this is usually done on rotation - it's all part of the adventure and when everyone puts in a little effort the trip runs smoothly. This journey is suitable for the adventure traveller looking to experience some of Africa's most special safari experiences.

Itinerary

Version:

Holiday Information

What's Included

- Two professional and qualified guides
- Airport transfer Day 1 the Land Only itinerary
- All accommodation as described
- Meals as described in the Meal Plan
- National Park entrance fees
- All activities/excursions mentioned except where specified as 'optional'

What's not Included

- Travel Insurance
- Visas (if applicable)
- Airport transfers on Day 15
- Some meals as detailed in the Meal Plan
- Any additional activities/excursions indicated as optional
- Tips for local staff
- Miscellaneous personal expenses - drinks and souvenirs etc

Joining Arrangements & Transfers

The group will meet at the accommodation in Livingstone.

Arrival transfers from Victoria Falls Airport or Livingstone Airport are provided for all clients to the group accommodation. On Day 1 at 1400 at the accommodation in Livingstone, you will meet your guide for an introduction and briefing.

On the last day of the Land Only itinerary, airport transfers to Windhoek Airport are not included. We can provide private transfers at an additional cost. Taxis are also available and are often cheaper.

Hotel contact details and an emergency number will be provided with your booking confirmation.

Meal Plan

14 breakfasts, 11 lunches and 9 dinners are included. Non-included meals are in the towns of Livingston, Swakopmund and Windhoek where we try out local restaurants. We recommend you budget £10 - 15 for each non-included meals.

Food & Water

Water from the taps may not be drinkable in all locations on this trip - please check with your guide. We recommend taking water purification tablets and a reusable bottle with a filter such as [Water-to-Go](#), which can both be used to help make safe other water sources. Please note that we do not encourage the purchase of single use plastic bottles.

The majority of the meals are provided. Breakfast will be cereals and yoghurt, with coffee, tea, toast and the occasional cooked breakfast. Lunch will typically be picnic style - cold meats, cheese, salads, bread, rolls and fruit. Dinner will be potjies (traditional stews), braais (barbecue), stir fries, pasta dishes, curries etc. Very often cooking will be on an open fire. Fresh produce will be used wherever possible and fruit squash, tea and coffee will be served with breakfast and dinner. Many of the meals are prepared by the guides and it is good group etiquette to help with preparation and washing up on these days and this is usually done on rotation. Some meals are taken at the accommodation or in local restaurants. Special dietary requirements (vegetarian or allergies) can usually be catered for, but it is essential that this information is received on booking. There is one cool box available for the group to put your own drinks in. Stops at supermarkets are regular to pick up supplies such as alcohol and soft drinks.

Special Diets

Whilst we can cater for vegetarians, albeit sometimes with a more limited choice, we cannot always provide for special diets. Due to the nature of some of the trips that we operate and the countries in which we operate them, it can be very hard (and sometimes impossible) to cater for a wide range of dietary choices and you may have to supplement your meals with food/snacks from home. If you have specific dietary requirements please do speak to our sales team and they will be able to advise you whether or not we will be able to offer your specific choice. Please note that we are unable to provide separate menus and cannot accept liability for any problems arising from special dietary requirements or intolerances.

Accommodation

Camping - for 11 nights on safari we stay at designated campsites, in or bordering national parks and towns. Campsite facilities are generally very good but in places can be basic. There are hot and cold showers, restaurants and washing facilities available at most of the campsites. A few of the campsites have swimming pools as well. We supply all the camping equipment with the exception of your sleeping bag and pillow. The dome tents we use are 2.2 x 2.2 x 1.8 meters and putting them up or down takes only 5 minutes. Tents have built-in insect nets. We supply mattresses, which are about 5 cm thick, warm and comfortable. The camp chairs have a backrest.

You will need to put your tent up, and help pack up the truck in the mornings. Most of the meals are prepared by the guides and it is good group etiquette to help with preparation and washing up on these days and this is usually done on rotation - it's all part of the adventure and when everyone puts in a little effort the trip runs smoothly.

We have 2 nights in Swakopmund and 1 night in Windhoek in a guesthouse with en suite twin bedrooms. All accommodation is subject to change without prior warning.

If you are travelling by yourself, you will be paired up with another single client of the same sex. Single tents and rooms are available for a supplementary cost. If you are planning on extending your holiday additional nights at the group accommodation are available on request.

SAFARI TRUCKS

Years of safari experience into the design of the trucks. The trucks are built to comply with the latest South African transport and safety regulations. Your comfort is catered for with individual seats (with safety belts), ample legroom and large vertical sliding windows for unobstructed viewing and photography.

There are roof hatches for excellent "open" views and an integral cab and passenger compartment so contact with the driver is easy. Each truck also has large packing compartments, a built in kitchen, freezer, drinking water tank, interior lights and a gas stove (to minimise use of wood and destruction of forest areas). There is also a pullout set of steps into the passenger compartment, making access for clients easier. There is usually a bank of plug sockets in the vehicles. These plugs are the South African 3 round pin or 2 round pin with a hexagonal base. We also use minibuses for some small group safaris. All of our vehicles are bought new and serviced by Mercedes and Toyota agents, thus ensuring trouble free touring with backup support in practically every town in Southern Africa.

Where road conditions allow, such as South Africa and Namibia we may also use minibuses. On 5% of tours we may use minibuses with 12 seats and air conditioning (with trailer for equipment and baggage). The safaris often have several long days of travel providing for a beautiful journey on the way to exciting and varied destinations.

Group Leader & Support Staff

Group leaders are the key to any successful safari. On this adventure safari, you will travel with two, qualified and experienced, registered field guides (FGASA). Two guides as crew, not a guide and a driver, adds up to an informative and interesting small group holiday. Our guides have a passion for Africa, her people and wildlife, and they love nothing more than sharing their knowledge with you.

Spending Money

We estimate that a total of around £300-375 per person (or equivalent in euros/dollars) should be allowed for personal spending. This amount should be sufficient to cover non-included meals and miscellaneous expenses, including tips to local staff. If you are intending to buy expensive souvenirs, considerable quantities of soft drinks / beer or undertake additional activities or excursions, you should budget accordingly (credit cards can be useful in this respect). You can choose to take your money in pounds sterling, dollars or euros. There will be the opportunity to change money into local currency on arrival at the airport (which we advise you to do) and your local leader will advise further places to change money en-route and at borders. Additionally, you will be able to get currency from bank ATMs in many of the towns that we will visit.

Many small traders will accept US\$, Euro or GBP. Your notes should be clean and undamaged. And please avoid USD\$100 and old issue 'small head' US\$ notes as they might not be accepted.

Guidance on Tipping

Your tour leader also works extremely hard to ensure that your holiday runs smoothly and that you are happy. We suggest that a tip of £2-5 per client per day for your tour leader is reasonable. When it comes to tipping the guides that we sometimes use for various activities (e.g. game walks etc) we suggest that a tip of £1-3 per client per ½ day activity, or the local currency equivalent, is acceptable. As in all cases with tipping, the final decision of the amount tipped is up to the individual. It is up to you to decide if you thought the service was poor, or exceptional, and the amount tipped should reflect that. The amounts quoted above are guidelines for you to get an idea of what to tip.

Baggage Allowance

For this holiday you should take one piece of luggage and a daypack. Your baggage will travel in the gear compartment of the truck with the group, and there is a finite amount of space. Please keep the weight of your main luggage to 12kg. You should bring a soft bag as these are more suitable to pack in the vehicle.

Group Size & Holiday Status

For each holiday there is a minimum number of participants required to enable it to go ahead. Once the minimum number is reached, the trip status will change from 'Available' to 'Guaranteed to run'. You can check the trip status for each departure in the 'Dates and Prices' table. Other than in exceptional circumstances, we will not cancel a trip once it has achieved this guaranteed to run status so you are free to proceed with your international flight booking and other travel arrangements.

Group Members

We sell this holiday in conjunction with our local operator in Southern Africa. This enables us to gather together sufficient numbers of like-minded adventurers to get the holiday up and running quickly. For this holiday the minimum age is 12 yrs, however it is unusual to have people under 16yrs.

South Africa Indemnity Form

As a member of the South African Tourism Service Association, our ground agent in South Africa may require you to complete an indemnity form at the start of your holiday, which you will need your insurance details for. As a client of KE Adventure Travel, your rights under the Package Travel and Linked Travel Arrangement Regulations (2018) are unaffected and KE Adventure Travel will remain liable for the actions of our suppliers.

General Information

Passport & Visas

The information that we provide is for UK passport holders.

A passport with 6 months remaining validity at the end of your stay is generally required, and you should have at least 2 blank pages for each country that you visit.

For other nationalities, please refer to your own Government website for the latest information.

It is your responsibility to ensure that you have the correct travel documents including vaccinations and health certificates (*see Health & Vaccinations below*), **and visas for your holiday.** Please ensure that you check the [FCDO](#) for the latest advice for **each country visited** before travel.

Visa Zambia

British passport holders do not need a visa in advance and can obtain a visa on arrival. The Government of Zambia recently announced the removal of all visa fees for British passport holders. However implementation of the policy has not yet been confirmed and British nationals may still be charged \$25 on arrival.

Other nationals should check details online to see if they need an e-visa.

Important Note for Victoria Falls: Please check your itinerary and your arrival/departure flights. If your accommodation and flights are from a different side of the falls you may need both a Zambian and a Zimbabwe visa. The town of Victoria Falls is in Zimbabwe, and the town of Livingstone is in Zambia.

Additionally If you visit the falls (on the border) and wish to cross the bridge to the other side you will require a visa for both countries.

A KAZA UNIVISA for Zimbabwe and Zambia is cheaper than purchasing the two visas for Zambia and Zimbabwe separately. The visa is valid for 30 days as long as you remain within Zimbabwe and Zambia. It is also valid for day trips to Botswana crossing over the Kazungula borders. It will not be valid if you overnight in Botswana.

It's available at the international airports in Lusaka and Livingstone and at the land borders at Livingstone (Zimbabwe border) and Kazungula (Botswana border). You can also apply online. It costs US\$50 for single entry, or US\$75 for double entry. Both are valid for 30 days from date of purchase.

Please note: The Government of Zambia recently announced the removal of all visa fees for British passport holders. However implementation of the policy has not yet been confirmed and British nationals may still be charged \$25 on arrival. This may affect your decision to purchase a Kaza Univisa.

Visa Zimbabwe

A visa is required. This is obtained on arrival and is \$55 single entry and \$70 for double. Payment must be in cash and you should take small denomination notes for this.

Important Note: Please check your itinerary and your arrival/departure flights. If your accommodation and flights are from a different side of the falls you may need both a Zambian and a Zimbabwe visa. The town of Victoria Falls is in Zimbabwe, and the town of Livingstone is in Zambia.

Additionally If you visit the falls (on the border) and wish to cross the bridge to the other side you will require a visa for both countries.

Visa Namibia

There is a 1,600N\$ charge (approx. 80 EUR, or 90 USD) in place as of the 1st April 2025 for 31 countries including the UK and USA which can either be purchased in advance as an e-Visa by following this link: <https://eservices.mhaiss.gov.na/holidayvisa-services>, or can be purchased on the day. Namibian immigration has stated that credit card facilities will be available at border posts. However, just in case, we recommend carrying NAD 1,600 or ZAR 1,600 in cash for visa fees, when applying at the border.

Travelling with children under 18yrs - Namibia

Parents travelling with children under 18 years will be asked to show the child's full unabridged birth certificate. If the child is travelling with one parent, with another adult or unaccompanied, the parent or parents who aren't present will need to provide an affidavit giving their consent for the child to travel. Please note that they are very strict and they do not accept photocopies of birth certificates or short versions. This is also applicable if you are transiting through Namibia. For further details please see [FCDO website](#).

Transit via South Africa

Rules on **travelling with children under 18 years** have been relaxed. Visa exempt children entering South Africa only need passports, and not birth certificates as previously required. This applies if the child is travelling with both parents, one parent or an adult who is not a biological parent, and school groups. There are some different requirements for unaccompanied children, and children who do not have UK passports or visa exempt passports. For full details please see the FCDO website.

Health & Vaccinations

VACCINATIONS

You should contact your doctor or travel clinic to check whether you specific require any vaccinations or other preventive measures. On holidays to more remote areas you should also have a dentist check up. You should be up to date with routine courses and boosters as recommended in the UK e.g. diphtheria-tetanus-polio and measles-mumps-rubella), along with hepatitis A and typhoid. In addition you should check whether any specific vaccinations are needed to the regions that you are travelling to. A good online resource is [Travel Health Pro](#).

Malaria

There is a risk of Malaria in this country. Malarial prophylaxis are required.

Yellow Fever

A certificate of yellow fever vaccination is required if travelling from countries with risk of yellow fever transmission and for travellers having transited for more than 12 hrs through an airport of a country with risk of yellow fever transmission.

If your holiday starts in Livingstone, Zambia and you are travelling into Namibia and Botswana you do not require a yellow fever certificate. This rule also applies to South Africa, for example, if you are transiting via South Africa. This is applicable to trip codes: NAB, NAC, NBC and NCC.

Severe Allergies

If you have a severe allergy please inform the KE office before you travel. We will do all we can to help, but we cannot guarantee an allergy free environment on KE trips. You will need to carry your own treatment for the allergy with you, as 'adrenaline auto-injectors' are not carried as standard by KE leaders and staff. You should inform your leader on arrival of your allergy, and let them know where you keep your adrenaline pen.

Currency

The unit of currency in Zambia is the Zambian Kwacha.

The unit of currency in Zimbabwe is the Zimbabwe Gold (ZiG). There is currently a shortage of available cash at the banks and ATM's in Zimbabwe. US Dollars are still widely used, so exchange your currency in advance, or use credit cards where possible, as these are widely accepted also.

The unit of currency in Namibia is the Namibian Dollar. The Namibian and the the Southern African Rand have the same value, and the Rand is accepted everywhere in Namibia.

Climate

Botswana & Zambia: This Central region of Southern Africa is subtropical and generally warm and mild / humid. October and November are hot, day and night. November to April is the hottest time of the year with chances of showers to heavy rains later in the season. May to September is cool and dry.

Namibia is largely a desert environment with hot clear days from September to April. May to August can be very cold at night but pleasant and sunny during the day. Rains are infrequent but most likely in January to March. The coast is subject to heavy morning fogs throughout the year and cooler weather in the winter months.

Travel Aware

As a reputable tour operator, KE supports the British Foreign, Commonwealth and Development Office's '[Travel Aware](https://www.travelaware.gov.uk)' campaign to enable British citizens to prepare for their journeys overseas. The 'Travel Aware' website provides a single, authoritative source of advice for all kinds of travellers and we recommend that before travel, all KE clients visit the official UK Government website at travelaware.campaign.gov.uk and read the FCDO Travel Advice for their chosen destination. North Americans can also check out the U.S. Department of State website: www.travel.state.gov for essential travel advice and tips.

KE treat the safety and security of all clients as the most important aspect of any trip we organise. We would not run any trip that we did not consider reasonably safe. Should the FCDO advise against travel for any reason, we will contact everyone booked to travel to discuss the situation. We receive regular updates directly from the FCDO and are in constant touch with our contacts on the ground. If you have any questions about government travel advice, please call our office.

Single Use Plastic

KE do not encourage the use of single use plastic items. We are ensuring that our agents all over the world are working together to reduce the problem and educate those around them. We are leading by example in our KE office by reducing our plastic use.

Books

- Sands of Silence by Peter H Capstick (Tales of travels and the Bushmen's culture and their political persecution)
- Skeleton Coast by John H Marsh (Wreck of the Dunedin Star and its survivors)
- The Diamond Hunters by Wilbur Smith (Fictional family feud set in Namibia)
- The Skeleton Coast by Benedict Allen (A journey through the Namib Desert)
- The Smell of Apples by Mark Behr (Story of boy in Cape Town and then army on Caprivi)
- Etosha by Daryl and Sharna Balfour (A coffee table book of photography)
- Newman's Birds of Southern Africa by Kenneth Newman Sasol
- Birds of Southern Africa by Ian Sinclair, Phil Hockey, and W.R. Tarboton
- The Safari Companion: A Guide to Watching African Mammals Including Hoofed Mammals, Carnivores, and Primates by Richard D. Estes and Daniel Otte
- Field Guide to Trees of Southern Africa (Field Guides) by Braam Van Wyk, Keith Coates Palgrav, and Piet Van Wyk

Maps

African Southern, 1:3500000

The southern half of Africa on a double-sided road map at 1:3,500,000 from the South African publishers Map Studio, with GPS waypoints for numerous locations and important road junctions. National parks and game reserves are prominently highlighted.

Private Groups Information

Make this KE Adventure holiday your own!

- Do our normal group departure dates not fit?
- Would you prefer to travel with just friends and/or family?
- Are you looking to organise a trip for your local walking, biking or mountaineering club?

It's really easy to make a trip your own. Simply select from our full range of adventure holidays and choose the dates that work for you and your group.

We are experts in creating holidays for groups of friends, families, charities and clubs. Our personal service means you'll be fully involved as we make the arrangements for your perfect adventure holiday.

Independence with Security

Travelling as a KE Private Group allows you more flexibility and choice, but still with the peace of mind that everything is pre-planned and arranged for your group by a reputable adventure travel company.

To take your first step to an amazing adventure with your friends and family complete the private group enquiry form, or call our **Sales Experts on: 017687 73966**

Travel Insurance

It is an essential condition of joining a holiday with KE Adventure Travel that you have a valid travel insurance policy to cover the cost of medical treatment and to protect the value of your holiday in the event of cancellation. When taking out insurance please ensure the policy you choose covers you for the activities and altitude included in your itinerary.

For appropriate insurance cover we recommend Campbell Irvine Direct. Please go to our [Travel Insurance](#) page for further information and to get a quote.

Explore International

This holiday is part of our Explore International range. Participants on these trips can book through KE or through one of our international partners. This helps us to gather together sufficient numbers of like-minded adventurers to get your holiday up and running quickly. Led by an English-speaking guide, the cosmopolitan nature of these groups can be an important part of the experience!

Equipment Information

Equipment List

Please try to keep the weight of your baggage to a minimum. See the 'baggage allowance' section for further details.

You should bring the following items:

- Lightweight walking shoes or trainers
- Sandals
- Socks and underwear
- Long lightweight trousers
- Shorts
- Lightweight waterproof jacket & trousers
- T-shirts
- Casual shirts with sleeves
- Fleece jacket or warm jumper
- Sunhat with wide brim
- Sunglasses
- Buff/scarf for dusty days
- Small towel/Travel towel
- Daypack 20-25 litres
- Sleeping bag*. Comfort rating 0 degrees C (Jun-Sep) and thinner sleeping can be used during the rest of the year.
- Headtorch and spare batteries
- Sun protection (including total bloc for lips, nose etc.)
- Water bottles 1 litre (x2) (we encourage re-filling water bottles rather than single use plastic)
- Water purification tablets
- Washbag and toiletries (biodegradable soap is preferred)
- Antibacterial handwash
- Insect repellent
- Basic First Aid Kit including: antiseptic cream, throat lozenges, diarrhoea treatment (Imodium), painkillers, plasters and blister treatment, re-hydration salts (Dioralite), anti-nausea tablets and antihistamine cream/tablets.

The following items are optional:

- Light cotton dress or sarong

- Swimwear
- Pen-knife (remember to pack sharp objects in hold baggage)
- Repair kit (eg. needle, thread, duct tape)
- A selection of dry bags for daypack/kit bag
- Camera
- Binoculars (highly recommended)
- Reusable cloth bag for shopping (to avoid plastic bags)

Notes:

Please be aware that in the Southern African the winter months, June-September, the nights can be cold with an average of between 0-5 degrees Celsius in some places, and the days can be warm between 20-30 degrees Celsius.

Bright bold colours and white are not suitable for game viewing or bush wear as they attract insects and the attention of animals. Please do not bring camouflage or military style clothes as they can cause problems with local authorities.

Please dress appropriately for border crossings, village and market visits – ie: no bare feet, no bare chests, no bikinis and no hats. A few restaurants are also not keen on T-shirts and jeans either.

Tents have mosquito netting on the windows and doors. Sleeping mattresses of 5cm thick are provided.

*It is possible to hire a sleeping bag for this holiday.

Land Only Information

Please refer to the 'Joining Arrangements & Transfers' within Holiday Information for further details.

Flights and other transport to your destination should not be booked until you have received your booking confirmation and the departure is showing 'Guaranteed to Run' or 'Limited'.

Land Only Information

The LAND ONLY dates and prices are for the itinerary joining in Livingstone. Arrival airport transfers are provided from Livingstone Airport or Victoria Falls Airport. This itinerary ends in Windhoek.

Flight Inclusive Information

Limited seats are available at the advertised flight price, please book as early as you can. If we are unable to secure seats at the price shown, or you have requested regional departures and/or upgrades, we will provide you with an alternative quote. It is likely that flight payment will be in advance of your final holiday balance. Booking a flight inclusive package means you will benefit from full financial protection, eases your holiday planning, and leaves us to deal with airlines and schedule changes. If you book flights through KE Adventure Travel we will [offset the carbon of your flight](#).

Regional departures and/or alternative carriers are available on request.

Flight Inclusive Information

The FLIGHT INCLUSIVE dates and prices are based on UK flights from London to Victoria Falls, Zimbabwe. Arrival airport transfers to Livingstone, Zambia are included. Return flights are from Windhoek, Namibia.

Outbound flights will depart from the UK in the evening, arriving the next day (day 1 of the Land Only itinerary). Return flights will depart in the afternoon/evening on the last day of the itinerary, arriving in the UK the following morning.

Why Choose KE

Why KE

Deserts, Damaraland and the smoke that thunders...! This safari spends the majority of its time in Namibia, and being the camping version is the best value for money. ARRIVAL AIRPORT TRANSFERS INCLUDED

Please Note This document was downloaded on 22/07/2025 and the trip is subject to change