

Summits on the Air

Finland (OH)

Association Reference Manual



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SOTA:	an original concept by G3WGV and developed with G3CWI

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1 Change Control

Date	Version	Details
01-Mar-08	1.0	First formal issue of this document
01-Feb-09	1.1	Correct positions for KI-010, MU-001 and KU-025 Correct names for KU-002 and KU-013

2 Association Reference Data

Association	Finland (OH)
Commencement date	01 April 2008
Regions	Kilpisjärvi-Pallas (KI-xxx) Kuusamon ylänkö (KU-xxx) Muotkatunturit(MU-xxx) Saariselkä-Lemmenjoki (SL-xxx)
Association parameters ¹	
Summit operation criteria	Operation must be within 25m vertically of the summit
Band 1, score 1 point	<400m ASL
Band 2, score 2 points	>=400m ASL, <500m ASL
Band 3, score 4 points	>=500m ASL, <600m ASL
Band 4, score 6 points	>=600m ASL, <700m ASL
Band 5, score 8 points	>=700m ASL, <800m ASL
Band 6, score 10 points	>=800m
Seasonal bonus	Yes
Bonus rationale	short daylight north of Arctic Circle
Min. height for bonus	3 Points for activations >=400m ASL
Bonus period dates	1 November to 29 February inclusive
Association sponsored awards	None
Association Manager	Jaakko Koivuniemi OH7BF oh7bf@sral.fi

2.1 Programme derivation

Finland SOTA is an extension of similar programmes already active in other countries. Most of the summits were collected from 1:100 000 and 1:50 000 outing maps from Finnish Lapland and Kuusamo regions. Like in the Marilyn programme of Great Britain, the *relative* height of summits is compared to their surroundings and defined as a minimum of 150m climb from the surrounding cols in order to qualify. In Finland often a nearby large lake or sea gives a good reference for first estimation of relative height. If the altitude difference is less than 150 m, the summit is not a qualifying SOTA summit.

The activators are asked to submit details of proposed additional summits to the Association Manager oh7bf@sral.fi together with any supporting documentation. If the summit meets the SOTA criteria it will be added to the list. Summits cannot be counted for points until a reference number has been allocated by the Association Manager. The same address should be used for any other proposed amendments.

2.2 General information

While the southern part of Finland is dominated by lakes, there are low mountains or fells in the Lapland and Kuusamo regions. These areas are sparsely populated. The distances between settlements are long with large wild areas in between. While Lapland is mostly populated by Finns, there is also Sami minority. The Sami language belongs to the Finno-Ugric language group. Many of the fells have a Sami name, where the Finnish 'tunturi' or 'vaara' is replaced by 'oaivi'.

¹ See General Rules for parameter definitions

The coldest month in Sodankylä is January with typical temperatures between -5 and -25 °C and the warmest is July with temperatures from +11 °C to +19 °C. The temperature records from past hundred years are about -50 °C and +32 °C. In Kilpisjärvi snow melts on the fells typically in the beginning of June and the lakes become free of ice around midsummer. Permanent snow coverage comes usually in the beginning of October and the Kilpisjärvi lake is frozen in November.

North of the Arctic Circle the sun does not rise above the horizon at least one day in the winter (so called polar night) while in the summer it does not set (polar day). In clear weather during the dark hours the northern lights or auroras are commonly observed. The Sodankylä Geophysical Observatory <http://www.sgo.fi> can give information on coming and past geomagnetic storms.

2.3 Rights of way and access issues

In the National Parks hiking, skiing, row boating and canoeing are allowed except in restricted areas. In the Strict Nature Reserves, for scientific purposes, walking is only allowed on marked paths. Many of the fell areas in northern Lapland do not have footpaths. This is true for the Muotkatunturi region. On the eastern Schengen area border with Russia moving in the border zone is only allowed with a special permission. More information on border zones can be found from <http://raja.fi>.

Campfires can only be lit with the landowner's permission. In the National Parks fire can be made only in lean-to shelters, cookery sheds and campfire sites. Making fire is forbidden on dry summer days when there is an alert for forest fires (metsäpalovaritus). Camping is only allowed in the marked places. In the Wilderness Areas moving and camping can usually be done anywhere. More information on different rights and responsibilities can be found from <http://outdoors.fi>.

2.3 Maps and navigation

Outing maps are available from <http://www.karttakeskus.fi/>. These are 1:50 000 or 1:100 000 maps with hiking and skiing routes, snow mobile routes, and fell huts. The outing maps cover only certain popular regions and there is no full coverage. More detailed 1:25 000 topographical maps are available from anywhere in Finland. Metsähallitus has a good online outing map service at <http://www.retkikartta.fi>.

The maps have Finnish KKJ and YKJ national grid coordinates. In KKJ the grid is given with the longitude and latitude degrees and minutes. In YKJ the longitude 27 degrees east corresponds to the east coordinate 3500 km. The north coordinate is distance from equator in kilometres. In the new maps also EUREF-FIN coordinates are printed. This coordinate system agrees well with the WGS84. See <http://www.karttapaikka.fi> for details.

2.4 Safety considerations

Finland is quite safe for outdoor activities. The cold weather conditions in winter are probably the most serious problem. During summer months mosquitoes and blackflies are annoying, but otherwise they are harmless. From the wild animals elks or bears attack people only rarely. Frozen lakes and rivers should be crossed with care since the ice can be thin due to current even in cold winter days. Snow avalanches happen from time to time on steep slopes, but are not as common as in Alps. The ski stations can provide more information on this risk. For the weather conditions consult the Finnish Meteorological Institute at <http://fmi.fi>.

Orienteering in Lapland is important since it is easy to get lost. Once lost there is usually nobody to ask the way and next road or village can be 10 – 50 km away. This is especially true for northern Lapland. Careful planning at home before the expedition is needed. Though the general coverage of mobile phones is good, there are gaps in the networks in the remote

areas. The activator needs to carry warm and dry spare clothes and some food supply since there are not many grocery stores available. Compass and map are always necessary.

2.5 Disclaimer

Hiking, hill-walking and rock-climbing are potentially dangerous activities. The SOTA Management Team and their associates assume no responsibility for accidents. Each participant does so at his or her own risk, and must decide, on the basis of their own ability, whether an objective is achievable. The listing of a summit in the reference does not mean that it is easy to reach, and it is always worth seeking local advice for all but the simplest of expeditions.

3 Summit Reference Data

3.1 Region Reference – Kilpisjärvi-Pallas

Association	Finland (OH)
Region	Kilpisjärvi-Pallas (KI-xxx)
Region manager	Refer to Association Manager

3.1.1 Regional notes

The highest mountains in Finland are in the Kilpisjärvi region. The Kilpisjärvi-Pallas region includes all the summits on the west side and the north-west arm of Finnish Lapland. The common boundary marker of Finland, Norway and Sweden is in the most west part of the Malla Strict Nature Reserve. The highest fell entirely inside Finland is the Ritnichohkka 1315m, while the Halti 1328m is on the border line with Norway. In the Pallas-Yllästunturi National Park the highest summit is the Taivaskero 800m.

3.1.2 Table of summits

SOTA	Alt(m)	Alt(ft)	NAME	Lat	Long	Locator	Valid from	Valid to	Pts
KI-001	1328	4357	Halti	69 18 29 N	21 15 55 E	KP09PH	04/01/08		10
KI-002	1315	4315	Ritnichohkka	69 17 02 N	21 20 25 E	KP09QG	04/01/08		10
KI-003	1082	3550	Duolljehuiipput	69 06 14 N	21 06 30 E	KP09NC	04/01/08		10
KI-004	1029	3376	Termisvaara	69 00 37 N	21 14 43 E	KP09OA	04/01/08		10
KI-005	1029	3376	Saana	69 02 38 N	20 51 22 E	KP09KB	04/01/08		10
KI-006	1019	3343	Meekonvaara	69 10 08 N	21 17 04 E	KP09PE	04/01/08		10
KI-007	961	3153	Korkea Jehkas	69 05 10 N	20 50 05 E	KP09KC	04/01/08		10
KI-008	945	3101	Ropi	68 46 58 N	21 40 28 E	KP08US	04/01/08		10
KI-009	933	3061	Peeravaara	68 54 36 N	21 08 10 E	KP08NV	04/01/08		10
KI-010	907	2976	Viissettoaivi	68 49 22 N	21 36 07 E	KP08ST	04/01/08		10
KI-011	858	2815	Njarnatoaivi	68 50 48 N	21 33 56 E	KP08SU	04/01/08		10
KI-012	842	2763	Muurivaara	69 02 11 N	21 03 27 E	KP09MA	04/01/08		10
KI-013	800	2625	Pallastunturi Taivaskero	68 04 29 N	24 03 14 E	KP28AB	04/01/08		10
KI-014	766	2513	Buoiddesoaivi	68 58 18 N	21 39 57 E	KP08TX	04/01/08		8
KI-015	737	2418	Lammasoaivi	68 47 06 N	21 20 37 E	KP08QS	04/01/08		8
KI-016	725	2379	Ounastunturi Outtakka	68 14 02 N	23 49 40 E	KP18VF	04/01/08		8
KI-017	719	2359	Ylläs	67 33 44 N	24 13 28 E	KP27CN	04/01/08		8
KI-018	715	2346	Ounastunturi Pyhäkero	68 19 31 N	23 46 16 E	KP18VH	04/01/08		8
KI-019	680	2231	Kalkkoaivi	68 44 11 N	22 07 07 E	KP18BR	04/01/08		6
KI-020	672	2205	Vuontiskero	68 09 02 N	24 02 00 E	KP28AD	04/01/08		6
KI-021	655	2149	Sarvisoivi	68 37 49 N	21 55 04 E	KP08XP	04/01/08		6
KI-022	640	2100	Jierstivaara	68 38 58 N	23 42 43 E	KP18UP	04/01/08		6
KI-023	614	2014	Keimiötunturi	67 56 43 N	24 07 56 E	KP27BW	04/01/08		6
KI-024	610	2001	Lainiotunturi	67 38 29 N	24 17 38 E	KP27DP	04/01/08		6
KI-025	600	1968	Valkamapää	68 43 02 N	24 12 27 E	KP28CR	04/01/08		6
KI-026	590	1936	Tarvantovaara	68 36 06 N	22 45 34 E	KP18JO	04/01/08		4
KI-027	580	1903	Palolaki	68 38 28 N	24 12 36 E	KP28CP	04/01/08		4
KI-028	575	1886	Suukisvaara	68 34 44 N	24 27 35 E	KP28FN	04/01/08		4
KI-029	575	1886	Ruototunturi	68 11 14 N	23 44 21 E	KP18UE	04/01/08		4
KI-030	570	1870	Vuomavaara	68 35 23 N	23 58 05 E	KP18XO	04/01/08		4
KI-031	550	1804	Könkäsentunturi	68 09 29 N	23 43 29 E	KP18UD	04/01/08		4
KI-032	535	1755	Kesänki	67 37 09 N	24 16 29 E	KP27DO	04/01/08		4
KI-033	530	1739	Levi	67 46 60 N	24 50 51 E	KP27KS	04/01/08		4
KI-034	530	1739	Aakenustunturi Moloslaki	67 40 26 N	24 32 13 E	KP27GQ	04/01/08		4

Summits on the Air – ARM for Finland (OH)

SOTA	Alt(m)	Alt(ft)	NAME	Lat	Long	Locator	Valid from	Valid to	Pts
KI-035	511	1676	Olostunturi	67 55 27 N	23 48 31 E	KP17VW	04/01/08		4
KI-036	510	1673	Sammalvaara	68 18 02 N	23 36 12 E	KP18TH	04/01/08		4
KI-037	508	1667	Äkäskero	67 44 54 N	24 09 51 E	KP27BR	04/01/08		4
KI-038	505	1657	Rajjanselkä	68 08 18 N	23 48 31 E	KP18VD	04/01/08		4
KI-039	505	1657	Kätkätunturi	67 47 01 N	24 43 31 E	KP27IS	04/01/08		4
KI-040	500	1640	Suastunturi	68 12 13 N	23 59 35 E	KP18XE	04/01/08		4
KI-041	490	1607	Särkitunturi	67 52 06 N	23 57 02 E	KP17XU	04/01/08		2
KI-042	450	1476	Pyhätunturi	67 46 27 N	24 38 35 E	KP27HS	04/01/08		2
KI-043	447	1466	Kukastunturi	67 39 12 N	24 13 06 E	KP27CP	04/01/08		2
KI-044	446	1463	Kolvakero	67 49 15 N	24 12 17 E	KP27CT	04/01/08		2
KI-045	440	1443	Sonkavaara	68 10 38 N	23 19 16 E	KP18PE	04/01/08		2
KI-046	425	1394	Keulakkopää	67 38 24 N	25 50 02 E	KP27WP	04/01/08		2
KI-047	417	1368	Haurespää	67 40 13 N	25 43 33 E	KP27UQ	04/01/08		2
KI-048	407	1335	Kaarestunturi Isolaki	67 34 53 N	26 12 43 E	KP37CN	04/01/08		2
KI-049	373	1224	Aalistunturi	67 01 23 N	24 25 52 E	KP27FA	04/01/08		1
KI-050	353	1158	Mustitunturi	66 54 38 N	24 18 18 E	KP26DV	04/01/08		1
KI-051	276	905	Lempainen	66 32 52 N	23 58 47 E	KP16XN	04/01/08		1

3.2 Region Reference – Kuusamon ylänkö

Association	Finland (OH)
Region	Kuusamon ylänkö (KU-xxx)
Region manager	Refer to Association Manager

3.2.1 Regional notes

The Kuusamon ylänkö is a vast area south from Tenniö river on eastern side of Lapland and Kuusamo through the Kainuu region down to Pielinen lake in centre-east part of Finland. The mountains are not as high as in north, but are more accessible due to closeness of some larger cities. The Pyhä-Luosto, Rukatunturi and Iso-Syöte regions are included in the Kuusamon ylänkö. When moving from north to south, the mountains become more and more rare and finally disappear in the large lake regions. Even though the land and lakes on east are from 100 to 250 m above sea level, the prominences are rare. The most southerly summit is the Ukko-Koli 347 m on Pielinen lake in the Koli National Park.

3.2.2 Table of summits

SOTA	Alt(m)	Alt(ft)	NAME	Lat	Long	Locator	Valid from	Valid to	Pts
KU-001	539	1768	Pyhän Noitatunturi	67 00 50 N	27 08 56 E	KP37NA	04/01/08		4
KU-002	514	1686	Ukko-Luosto	67 08 22 N	26 53 47 E	KP37KD	04/01/08		4
KU-003	504	1653	Peurakero	67 00 46 N	27 05 54 E	KP37NA	04/01/08		4
KU-004	500	1640	Kultakero	67 01 19 N	27 13 06 E	KP37OA	04/01/08		4
KU-005	493	1617	Rukatunturi	66 09 55 N	29 09 06 E	KP46ND	04/01/08		2
KU-006	478	1568	Iso Pyhäntunturi	66 46 53 N	28 48 03 E	KP46JS	04/01/08		2
KU-007	472	1548	Ruuhitunturi	66 42 56 N	28 46 42 E	KP46JR	04/01/08		2
KU-008	465	1525	Riisitunturi	66 13 23 N	28 33 33 E	KP46GF	04/01/08		2
KU-009	453	1486	Vuotostunturi	67 05 23 N	28 20 28 E	KP47EC	04/01/08		2
KU-010	431	1414	Iso-Syöte	65 37 32 N	27 36 16 E	KP35TP	04/01/08		2
KU-011	407	1335	Peniöntunturi	66 26 52 N	27 49 13 E	KP36VK	04/01/08		2
KU-012	407	1335	Outitunturi	66 54 19 N	27 17 15 E	KP36PV	04/01/08		2
KU-013	406	1332	Keski-Luosto	67 11 01 N	26 50 16 E	KP37KE	04/01/08		2
KU-014	387	1269	Tongosoiva	67 15 38 N	27 05 17 E	KP37NG	04/01/08		1
KU-015	384	1260	Rännivaara	65 07 16 N	27 56 50 E	KP35XC	04/01/08		1
KU-016	373	1224	Soutaja	67 03 20 N	27 15 47 E	KP37PB	04/01/08		1
KU-017	373	1224	Kuirivaara	64 53 34 N	27 52 28 E	KP34WV	04/01/08		1
KU-018	368	1207	Naulavaara	63 53 15 N	28 14 31 E	KP43CV	04/01/08		1
KU-019	362	1187	Hyypiökivalo	66 19 35 N	26 44 41 E	KP36IH	04/01/08		1
KU-020	360	1181	Kaihuanvaara	66 22 02 N	26 53 38 E	KP36KI	04/01/08		1
KU-021	356	1168	Mairivaara	67 06 25 N	27 10 34 E	KP37OC	04/01/08		1
KU-022	347	1138	Ukko-Koli	63 05 40 N	29 48 32 E	KP43VC	04/01/08		1
KU-023	345	1132	Jaurakkavaara	65 06 47 N	27 40 20 E	KP35UC	04/01/08		1
KU-024	315	1033	Välimäki	63 16 60 N	27 59 37 E	KP33XG	04/01/08		1
KU-025	305	1000	Räsävaara	63 07 43 N	29 43 41 E	KP43UD	04/01/08		1

3.4 Region Reference – Muotkatunturit

Association	Finland (OH)
Region	Muotkatunturit(MU-xxx)
Region manager	Refer to Association Manager

3.4.1 Regional notes

The Muotkatunturit region includes also the Utsjoki-Kevo and Sevettijärvi-Nuorgam regions. Nuorgam is the most north village in Finland while Utsjoki is the most north town. The highest summit Guivi 641 m is in the Kevo Strict Nature Reserve. It can be accessed only by the marked paths from the Paistunturit Wilderness Area. The Muotkatunturit Wilderness Area does not have marked paths for hikers and has only few fell huts. On eastern side of this region there is the large Inari lake with only few low summits around it.

3.4.2 Table of summits

SOTA	Alt(m)	Alt(ft)	NAME	Lat	Long	Locator	Valid from	Valid to	Pts
MU-001	641	2103	Guivi	69 37 07 N	26 25 23 E	KP39FO	04/01/08		6
MU-002	620	2034	Ailigas Lanka	69 25 39 N	25 59 17 E	KP29XK	04/01/08		6
MU-003	619	2031	Paistunturit Gaimmioaivi	69 40 51 N	26 22 26 E	KP39EQ	04/01/08		6
MU-004	590	1936	Kuarvikozza	69 05 25 N	26 24 10 E	KP39EC	04/01/08		4
MU-005	557	1827	Ahkovarri	69 34 60 N	26 06 49 E	KP39BN	04/01/08		4
MU-006	545	1788	Taveed Gaisavarri	69 04 54 N	26 02 24 E	KP39AB	04/01/08		4
MU-007	545	1788	Muotkatunturit Avzikesuaivi	69 15 02 N	26 03 39 E	KP39AG	04/01/08		4
MU-008	545	1788	Jorba Kaisavarri	69 02 59 N	26 03 59 E	KP39AB	04/01/08		4
MU-009	535	1755	Nuvvos Ailegas	69 48 25 N	26 17 33 E	KP39DT	04/01/08		4
MU-010	515	1690	Nuhppir Toardnaalas	69 18 12 N	25 48 55 E	KP29VH	04/01/08		4
MU-011	511	1676	Urretoaivi	69 08 07 N	26 15 37 E	KP39DD	04/01/08		4
MU-012	502	1647	Buresoaivi	69 10 10 N	26 01 18 E	KP39AE	04/01/08		4
MU-013	446	1463	Roavveoaivi	69 51 30 N	26 49 37 E	KP39JU	04/01/08		2
MU-014	443	1453	Kuorboaivi	69 40 59 N	27 44 48 E	KP39UQ	04/01/08		2
MU-015	435	1427	Tsuomasvarri	69 52 28 N	28 15 32 E	KP49DU	04/01/08		2
MU-016	432	1417	Palopää Buollanoaivi	69 52 10 N	27 07 03 E	KP39NU	04/01/08		2
MU-017	420	1378	Goahppeloaivi	69 56 19 N	26 48 03 E	KP39JW	04/01/08		2
MU-018	397	1302	Etelä-Riutusvaara	68 56 15 N	25 51 28 E	KP28WW	04/01/08		1

3.5 Region Reference – Saariselkä-Lemmenjoki

Association	Finland (OH)
Region	Saariselkä-Lemmenjoki (SL-xxx)
Region manager	Refer to Association Manager

3.5.1 Regional notes

The Saariselkä region is south from the large Inari lake. The Lemmenjoki National Park and Koilliskaira are included to the Saariselkä-Lemmenjoki region. The highest fell in the Saariselkä Wilderness Zone of Urho Kekkonen National Park is the Sokosti 718 m. The Hammastunturi Wilderness Area is north-west from this summit.

3.5.2 Table of summits

SOTA	Alt(m)	Alt(ft)	NAME	Lat	Long	Locator	Valid from	Valid to	Pts
SL-001	718	2356	Sokosti	68 13 09 N	28 08 13 E	KP48BF	04/01/08		8
SL-002	689	2261	Vuomapää	68 10 12 N	28 21 18 E	KP48EE	04/01/08		6
SL-003	678	2224	Kuikkapää	68 17 30 N	28 23 59 E	KP48EG	04/01/08		6
SL-004	629	2064	Sorsatunturi	67 24 24 N	29 37 49 E	KP47TJ	04/01/08		6
SL-005	620	2034	Lupukkapää	68 16 04 N	27 58 56 E	KP38XG	04/01/08		6
SL-006	597	1959	Morgam-Viipus	68 38 30 N	25 54 16 E	KP28WP	04/01/08		4
SL-007	575	1886	Soabbegealdinoaivi	68 46 55 N	25 47 33 E	KP28VS	04/01/08		4
SL-008	555	1821	Stuorrabogoaivi	68 47 12 N	25 12 36 E	KP28OS	04/01/08		4
SL-009	546	1791	Kiilopää	68 20 29 N	27 30 10 E	KP38SI	04/01/08		4
SL-010	544	1785	Jäkäläpää	68 44 35 N	25 11 17 E	KP28OR	04/01/08		4
SL-011	538	1765	Joutsitunturi	67 24 08 N	29 09 19 E	KP47NJ	04/01/08		4
SL-012	534	1752	Joenkielinen	68 42 42 N	26 07 02 E	KP38BR	04/01/08		4
SL-013	531	1742	Hammastunturi	68 35 56 N	26 51 27 E	KP38KO	04/01/08		4
SL-014	530	1739	Kaarnepää	68 19 16 N	28 04 19 E	KP48AH	04/01/08		4
SL-015	521	1709	Laskikuru	68 40 23 N	25 50 55 E	KP28WQ	04/01/08		4
SL-016	510	1673	Korkianokka	68 35 58 N	27 01 59 E	KP38MO	04/01/08		4
SL-017	494	1621	Pietarlauttanen	68 32 10 N	26 42 40 E	KP38IM	04/01/08		2
SL-018	484	1588	Appistunturit	68 38 34 N	26 34 16 E	KP38GP	04/01/08		2
SL-019	471	1545	Vahtamapää	68 23 53 N	27 30 08 E	KP38SJ	04/01/08		2
SL-020	466	1529	Kivipää	68 24 21 N	27 38 52 E	KP38TJ	04/01/08		2
SL-021	460	1509	Nivatunturi	67 18 16 N	27 46 13 E	KP37VH	04/01/08		2
SL-022	457	1499	Kurupää	68 35 41 N	27 50 30 E	KP38WO	04/01/08		2
SL-023	445	1460	Niekka	67 47 60 N	28 39 56 E	KP47HT	04/01/08		2
SL-024	438	1437	Kaunispää	68 26 03 N	27 26 38 E	KP38RK	04/01/08		2
SL-025	437	1434	Puillakkapää	68 21 46 N	27 51 25 E	KP38WI	04/01/08		2
SL-026	433	1420	Nukkumapää	68 48 47 N	26 58 54 E	KP38LT	04/01/08		2
SL-027	431	1414	Lapiopäät	68 40 31 N	27 13 57 E	KP38OQ	04/01/08		2
SL-028	418	1371	Otsamo	68 53 02 N	26 50 16 E	KP38KV	04/01/08		2
SL-029	417	1368	Palopää	68 27 33 N	27 31 27 E	KP38SL	04/01/08		2
SL-030	411	1348	Sarmitunturi	68 42 51 N	28 18 16 E	KP48DR	04/01/08		2
SL-031	354	1161	Riukuselkä	68 27 17 N	28 02 49 E	KP48AK	04/01/08		1
SL-032	340	1115	Luosma	68 57 14 N	27 01 27 E	KP38MW	04/01/08		1
SL-033	280	918	Saivarvaara	68 48 22 N	27 45 50 E	KP38VT	04/01/08		1