

TETRA Interoperability Certificate

**Teltronic (part of Sepura Group), NEBULA, SwMI –
Hytera, PT790Ex, Terminal**

Zaragoza, November 2016

Latest Certified SwMI SW Release:	v15.26.50	Latest Certified Terminal SW Release:	V3.07
Latest Certified SwMI HW Release:	1.15.26.24.29	Latest Certified Terminal HW Release:	117900

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Teltronic (part of Sepura Group), NEBULA, SwMI and the Hytera, PT790Ex, terminal have been subject to interoperability testing for the “certified” features listed on second page of this certificate, in accordance with the TETRA Interoperability Profiles, TIP compliance Test Plan and related TETRA interoperability requirement tables.


The table lists all the available TETRA interoperability profiles, and summarizes the main functionalities of every profile according to the TETRA interoperability requirement tables.

A feature is “Certified” when it has been successfully tested during the last test session with one of the testing method described in the TETRA process document part 1 (TPD001-01).


A breakdown into the feature details is given in the Feature Compliance Overview section of this certificate.

This certificate has been issued following a fully witnessed single test session between Teltronic (part of Sepura Group) and Hytera on November 2016. Detailed test results are listed in the Test Report associated to this Certificate. Details and explanation about the procedure used to provide verdicts are in the TIC process TPD001-01.

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v 1

Certified features

Tetra Association TTR001-01:Core	
Registration	Certified
Group Management	Certified
Group call	Certified
Individual call	Certified
Status messages	Certified
Pre-emptive Priority Call	Certified
Emergency Call	Certified
Cell Re-selection	Certified
PSTN interconnect	Certified
MS-ISDN Numbering	-
In Call Signalling	Certified
Subscriber Class Procedures	-
Common Secondary Control Channels	Certified
BS Fallback Operation	Certified
Energy Economy Mode	-
Transmit Inhibit	Certified
Mixed band operation	-
Tetra Association TTR001-02:SDS	
SDS Type 1, 2 or 3	Certified
SDS-TL	Certified
Store and Forward	-
Multipart SDS	-
Tetra Association TTR001-03:DGNA	
Support for individually addressed DGNA	Certified
Support for group addressed DGNA	Certified
Tolerance of unsupported DGNA functions	-

Tetra Association TTR001-04:Auth	
SwMI Initiated (non-mutual) Authentication	Certified
SwMI Initiated Authentication made Mutual by MS	Certified
TEI Query	-
Tetra Association TTR001-05:PD	
Context Management	Certified
Single Slot Packet Data	Certified
Multi Slot Packet Data	Certified
TEDS	-
Mixed band operation	-
Tetra Association TTR001-09:AL	
Ambience Listening	Certified
Interaction with Transmit Inhibit	Certified
Tetra Association TTR001-10:E2EE	
E2EE Voice Call	Certified
Tetra Association TTR001-11:AIE	
Security Class 2 Air Interface Encryption	-
Security Class 3 Air Interface Encryption	Certified
Security Class 3G Air Interface Encryption	-
Management of CMG and GSKO	-
Key Status demand	-
Change of Security Class for Fallback operation	-
Change of Security Class (other than for Fallback operation)	-
Key Management for Secure Direct Mode Operation	-
Tetra Association TTR001-12:SI	
MS initiated Service Interaction	Certified
SwMI initiated Service Interaction	Certified
Call Waiting	-

Tetra Association TTR001-13:ED	
Enable and temporary disable of an MS	Certified
Permanent disable of an MS	Certified
Tetra Association TTR001-14:TKD	
Delivery of Authentication Data	Certified
Delivery of SCK	Certified
Delivery method	Certified
Tetra Association TTR001-15:CAD	
Call Authorised by Dispatcher - Compliant	Certified
Call Authorised by Dispatcher - Tolerant	-
Tetra Association TTR001-19:LIP	
Location Information Protocol	Certified

Feature Compliance Overview

The first pages of this certificate provide an indication about the main interoperable TETRA features for each TIP specification (as described in the TIC-RT). The main interoperable TETRA features result depend on a set of sub-feature, the outcomes associated to each sub-feature are directly derived from the analysis of the performed test cases.

The results associated to each feature and sub-feature are shown in the "Feature compliance report" table below. The main features are indicated with blue background and the associated sub-features (or second level features) have white background.

The outcome assigned to a sub-feature as shown on page 2, is derived by the Feature compliance report tables.

Outcome	Definition
Certified	All required tests have been performed and passed
Partial	Not all the required tests have been performed but none have failed
-	Feature cannot be certified e.g. it is not supported by at least one product, no tests were performed, or some tests were performed but at least one failed

The outcome is derived from the verdict assigned to a sub feature which is the result of an analysis of the test case results listed in the Test Report. The verdict assigned to each sub-feature is derived from one or several test case results or test steps result, the TETRA Interoperability requirement tables (TIC-RTs) indicate the link between sub-features and test cases for the certified set of equipment capabilities (see Test Report)

Verdict	Definition
Passed	All mandated tests or steps of tests linked to this functionality (as per TIC-RT indication) are compliant with the TIP specification relevant to this feature or sub-feature
Incomplete	Not all mandated tests (as per TIC-RT indication) have been executed

Failed	At least one of mandated test or steps of test linked to this functionality failed to match the TIP specification relevant to this feature or sub-feature
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The verdict associated to the feature gives also indication about the method used to test that feature or sub-feature. The allowed testing Methods are listed in the table below, a complete description of the procedures and constraints associated to each of them can be found in the "TPD001-01 TETRA Interoperability Certification Process Description" document.

Testing Method	Description
Complete	All mandated tests associated to the feature or sub-feature have been executed
Spot	Only a selection of the mandatory test cases associated to the feature or sub-feature has been executed during the test session. These tests are a subset of the tests performed on an equivalent software which has been "completely" tested against the same functionality on a different equipment, see manufacturer declaration in the associated Test Report
Regression	Only a selection of the mandatory test cases associated to the feature or sub-feature has been executed during the test session. These tests are a subset of the tests performed on a previous version of the same software which has been "completely" tested in a previous test session against the same functionality, see manufacturer definition in the associated Test Report
Regression on spot	The regression method (see the previous item) has been applied at this session on the verdicts from the referenced (previous) session where the spot testing method (see above) had been applied
Witnessed	The TIP heading lines in the Feature Compliance Report indicate whether each TIP is partially or fully witnessed by the Certification Body. Additionally, for a partially-witnessed TIP, the number of witnessed test cases that passed is shown for each the feature and sub-feature. There may have been some un-witnessed passed tests and they will have been found to be successful based on the log file evaluation

Depending on equipment capabilities declared by the manufacturer, some features or sub features cannot be tested. The following table describes meaning of the used abbreviation

Indication	Definition
Not Supported	The SwMI and/or MS do not support the minimum features required to verify these items.

ISCTI has made every effort to ensure that every result has been correctly evaluated in accordance with the relevant TIPs, Test Plans and TIC-RTs. ISCTI has no liability for the test results, or towards the manufacturers,

The table on the following page lists HW and SW releases of SwMI and Terminal under test in the last four test sessions and the used TIP specifications, Test Plans and TIC-RTs

This Certificate and Certificates from previous test sessions are available on the TETRA + Critical Communications Association web site (<http://www.tandcca.com/interop/page/12476>).

The feature results are shown in the tables below

Information on equipment under test and document references

Test Session Host/Date/Place	Teltronic (part of Sepura Group) November 2016 Zaragoza			
SwMI Type	NEBULA			
SwMI HW Release	1.15.26.24.29			
SwMI SW Release	v15.26.50			
Terminal Type	PT790Ex			
Terminal HW Release	117900			
Terminal SW Release	V3.07			

TIP Specs and TIP Compliance Test Plans				
Core	TTR001-01 v6.1.1 IOP001-01 v3.1.0 TIC-RT001-01 v2.6.7			
SDS	TTR001-02 v2.1.3 IOP001-02 v2.1.0 TIC-RT001-02 v2.1.9			
DGNA	TTR001-03 v2.0.0 IOP001-03 v2.0.1 TIC-RT001-03 v2.2.6			
Auth	TTR001-04 v3.0.0 IOP001-04 v2.0.0 TIC-RT001-04 v2.2.8			
PD	TTR001-05 v4.1.0 IOP001-05 v4.1.0 TIC-RT001-05 v4.0.2			
AL	TTR001-09 v2.0.0 IOP001-09 v1.1.0 TIC-RT001-09 v1.2.7			
E2EE	TTR001-10 v2.1.0 IOP001-10 v1.1.4 TIC-RT001-10 v1.2.5			
AIE	TTR001-11 v3.0.3 IOP001-11 v3.1.0 TIC-RT001-11 v3.2.9			
SI	TTR001-12 v1.1.0 IOP001-12 v1.0.0 TIC-RT001-12 v1.3.1			

ED	TTR001-13	v2.1.0			
	IOP001-13	v1.0.0			
	TIC-RT001-13	v1.4.9			
TKD	TTR001-14	v1.0.3			
	IOP001-14	v1.0.0			
	TIC-RT001-14	v1.2.0			
CAD	TTR001-15	v1.0.0			
	IOP001-15	v1.0.0			
	TIC-RT001-15	v1.1.4			
LIP	TTR001-19	v1.1.0			
	IOP001-19	v1.1.0			
	TIC-RT001-19	v1.1.1			

Feature compliance report

Test Session	Teltronic (part of Sepura Group) November 2016 Zaragoza			
Core - Fully Witnessed Testing				
Registration	Spot 0_pass_of_6			
Initial registration	Spot 0_pass_of_4			
SwMI initiated location updating	Spot 0_pass_of_1			
LA timer based Periodic location updating	Not Supported			
De-registration	Spot 0_pass_of_1			
Group Management	PASSED Spot 2_pass_of_13			
Single group attachment	PASSED Spot 1_pass_of_7			

Multiple group attachment	PASSED Spot 1_pass_of_6			
MS initiated group detachment	Spot 0_pass_of_2			
SwMI initiated group management	Not Supported			
Group call	PASSED Spot 2_pass_of_12			
Normal group call	PASSED Spot 1_pass_of_4			
Late entry	Spot 0_pass_of_1			
Priority Group scanning	PASSED Spot 1_pass_of_3			
Call setup modifications	Spot 0_pass_of_1			
Resource Queuing based on Call Priority	Spot 0_pass_of_2			
Broadcast Call	Spot 0_pass_of_1			
Limited coverage notification	Not Supported			
Individual call	PASSED Spot 3_pass_of_14			
Simplex individual call	PASSED Spot 1_pass_of_4			
Duplex individual call	PASSED Spot 1_pass_of_2			
Call setup modifications	PASSED Spot 1_pass_of_4			
Resource Queuing based on Call Priority	Spot 0_pass_of_4			
Indication of imminent call disconnection	Not Supported			
Status messages	PASSED Spot 1_pass_of_4			
Individual addressed Status transfer	Spot 0_pass_of_1			
Group addressed Status transfer	PASSED Spot 1_pass_of_3			
Pre-emptive Priority Call	Spot 0_pass_of_7			

Pre-emption of Resources	Spot 0_pass_of_2			
Pre-emption of Busy Users	Spot 0_pass_of_5			
Emergency Call	PASSED Spot 1_pass_of_3			
Pre-emption of Resources	PASSED Spot 1_pass_of_2			
Pre-emption of Busy Users	Spot 0_pass_of_1			
Call setup modifications	Not Supported			
Call disconnection by non-call owner	Not Supported			
Cell Re-selection	PASSED Spot 3_pass_of_15			
Undeclared	Spot 0_pass_of_1			
Unannounced	Spot 0_pass_of_3			
Announced - with Call Restoration	PASSED Spot 3_pass_of_11			
Announced - without Call Restoration	Not Supported			
Expedited	Not Supported			
Graceful Service Degradation Mode (GSDM)	Not Supported			
PSTN interconnect	PASSED Spot 1_pass_of_5			
TETRA Originated Call	Spot 0_pass_of_2			
PSTN Originated Call	Spot 0_pass_of_1			
DTMF over-dial	PASSED Complete 1_pass_of_1			
Emergency Telephone Calls	Spot 0_pass_of_1			
MS-ISDN Numbering				
MS ISDN - Voice Call	Not Supported			
MS-ISDN Status	Not Supported			
In Call Signalling	PASSED Spot 2_pass_of_7			

Slow Signalling on Traffic Channel (SACCH)	PASSED Spot 1_pass_of_4			
Fast Signalling on Traffic Channel (FACCH)	PASSED Spot 1_pass_of_3			
Subscriber Class Procedures				
Cell Selection based on Subscriber Class	Not Supported			
Subscriber Class Delivery during Location Update	Not Supported			
Use of Preferred Subscriber Classes	Not Supported			
Common Secondary Control Channels	PASSED Spot 2_pass_of_7			
One C-SCCH per cell	Spot 0_pass_of_4			
Two C-SCCH per cell	PASSED Spot 2_pass_of_3			
Three C-SCCH per cell	PASSED Spot 1_pass_of_2			
BS Fallback Operation	PASSED Spot 2_pass_of_11			
Switch to/from BS Fallback Operation	Not Supported			
Roaming to avoid a cell in BS Fallback Operation	PASSED Spot 1_pass_of_2			
Services with BS Fallback Operation	PASSED Spot 1_pass_of_8			
Ignore a cell in Fallback Operation	Spot 0_pass_of_2			
User selectable Fallback behaviour	Spot 0_pass_of_1			
Energy Economy Mode				
Energy Economy Mode Operation	Not Supported			
Transmit Inhibit	PASSED Spot 3_pass_of_8			
TXI Activation & De-Activation	PASSED Spot 2_pass_of_4			
TXI Activation & De-Activation with TxI Status available to the Dispatcher	PASSED Spot 1_pass_of_3			

Receipt of group addressed service during TXI	Spot 0_pass_of_1			
Mixed band operation				
Mixed band operation, inter-cell	Not Supported			
Mixed band operation, intra-cell	Not Supported			
Mixed band operation, Full	Not Supported			
SDS - Fully Witnessed Testing				
SDS Type 1, 2 or 3	Spot 0_pass_of_3			
SDS Type 1	Spot 0_pass_of_1			
SDS Type 2	Spot 0_pass_of_1			
SDS Type 3	Spot 0_pass_of_1			
SDS-TL	PASSED Spot 2_pass_of_7			
Individually Addressed	Spot 0_pass_of_2			
Group Addressed	PASSED Spot 1_pass_of_3			
Using MS-ISDN dialling	Not Supported			
SDS Reception	PASSED Spot 2_pass_of_5			
Using UCS2 coding scheme	Spot 0_pass_of_2			
Using 7-bit coding scheme	Not Supported			
Using 8-bit Latin 1 coding scheme	PASSED Spot 1_pass_of_3			
Using 8-bit Latin 5 coding scheme	Complete			
Using 8-bit Latin 9 coding scheme	Complete			
Store and Forward				
Individually Addressed	Not Supported			
Group Addressed	Not Supported			
Multipart SDS				
Multipart SDS	Not Supported			

DGNA - Fully Witnessed Testing				
Support for individually addressed DGNA	PASSED Spot 2_pass_of_9			
Support for individually addressed DGNA assignment without attachment	Not Supported			
Support for individually addressed DGNA assignment with attachment as selected group	PASSED Spot 2_pass_of_3			
Support for individually addressed DGNA assignment with attachment as scanned group	Spot 0_pass_of_3			
Support for individually addressed DGNA assignment with rejected attachment	Spot 0_pass_of_1			
Support for individually addressed assignment for pre-programmed group	Spot 0_pass_of_3			
Support for group addressed DGNA	PASSED Spot 1_pass_of_5			
Support for group addressed DGNA assignment	Spot 0_pass_of_2			
Management of 'group assignment lifetime'	PASSED Spot 1_pass_of_2			
Support for group addressed DGNA deassignment	Spot 0_pass_of_1			
Tolerance of unsupported DGNA functions				
MS tolerance of unsupported individual addressed DGNA signalling	Not Supported			
MS tolerance of unsupported group addressed DGNA signalling	Not Supported			
Auth - Fully Witnessed Testing				
SwMI Initiated (non-mutual) Authentication	Spot 0_pass_of_3			
Attach with authentication	Spot 0_pass_of_1			
Roaming with authentication	Spot 0_pass_of_1			
SwMI rejects MS during authentication	Spot 0_pass_of_1			
MS rejects SwMI during authentication	Not Supported			
SwMI Initiated Authentication made Mutual by MS	PASSED Spot 1_pass_of_2			

Attach with authentication	Spot 0_pass_of_1			
Roaming with authentication	PASSED Complete 1_pass_of_1			
TEI Query				
TEI Query Operation	Not Supported			
PD - Fully Witnessed Testing				
Context Management	PASSED Spot 2_pass_of_9			
Context Activation	PASSED Spot 2_pass_of_7			
User authentication	Spot 0_pass_of_2			
Single Slot Packet Data	PASSED Spot 2_pass_of_8			
Data Transfer	PASSED Spot 1_pass_of_5			
Cell re-selection	PASSED Spot 1_pass_of_3			
Multi Slot Packet Data	PASSED Spot 0_pass_of_2			
Data Transfer	Spot 0_pass_of_2			
TEDS				
TEDS with Context Activation	Not Supported			
TEDS Data Transmission, using LLC Optimisation	Not Supported			
TEDS Cell Reselection, using LLC Optimisation	Not Supported			
Mixed band operation				
Mixed band operation, inter-cell	Not Supported			
Mixed band operation, intra-cell	Not Supported			
Mixed band operation, Full	Not Supported			
AL - Fully Witnessed Testing				
Ambience Listening	PASSED Spot 1_pass_of_2			

SS-AL Call Setup	Spot 0_pass_of_1			
MS initiated SS-AL disconnection	PASSED Complete 1_pass_of_1			
No Indication to affected user	PASSED Spot 1_pass_of_2			
Interaction with Transmit Inhibit	Spot 0_pass_of_1			
AL can override TxI	Not Supported			
AL cannot override TxI	Spot 0_pass_of_1			
E2EE - Fully Witnessed Testing				
E2EE Voice Call	PASSED Spot 2_pass_of_6			
Individual (P2P) call	PASSED Spot 1_pass_of_4			
Group (P2MP) call	PASSED Spot 1_pass_of_2			
Clear Voice Override (CVO): Acceptance	Not Supported			
Clear Voice Override (CVO): User Initiated	Not Supported			
Clear Voice Override (CVO): Automatic	Not Supported			
AIE - Fully Witnessed Testing				
Security Class 2 Air Interface Encryption				
Location Updating and AI Signalling Protection	Not Supported			
TM-SCK provisioning during location updating	Not Supported			
Communications between parties using encryption	Not Supported			
Communications between clear and encrypted parties	Not Supported			
Communications between encrypted parties on a channel designated to operate in clear	Not Supported			
OTAR of TM-SCK	Not Supported			
Change of TM-SCK	Not Supported			
Packet Data with Class 2 Air Interface Encryption	Not Supported			

Tolerance of SwMI not supporting SCK-OTAR	Not Supported			
Security Class 3 Air Interface Encryption	PASSED Spot 3_pass_of_15			
Clear Location Updating and AI Signalling Protection	PASSED Spot 2_pass_of_3			
Encrypted Location Updating and AI Signalling Protection	Spot 0_pass_of_3			
DCK Forwarding at MS request	Spot 0_pass_of_3			
DCK Forwarding by SwMI (without MS request)	Not Supported			
DCK Retrieval	Not Supported			
CCK provisioning during location updating	PASSED Spot 2_pass_of_3			
Communications between parties using encryption	Spot 0_pass_of_2			
Communications between clear and encrypted parties	Spot 0_pass_of_2			
Communications between encrypted parties on a channel designated to operate in clear	Not Supported			
OTAR of CCK	PASSED Spot 1_pass_of_3			
Change of CCK	PASSED Spot 1_pass_of_4			
Packet Data with Class 3 Air Interface Encryption	Spot 0_pass_of_1			
Security Class 3G Air Interface Encryption				
GCK Key Association setting	Not Supported			
Communications between parties using encryption	Not Supported			
Communications between clear and encrypted parties	Not Supported			
OTAR of GCK	Not Supported			
Change of GCK	Not Supported			
Management of CMG and GSKO				
OTAR and change of CMG and GSKO	Not Supported			
Key Status demand				
SCK Key Status demand	Not Supported			

GCK Key Status demand	Not Supported			
GSKO Key Status demand	Not Supported			
Change of Security Class for Fallback operation				
Seamless change to Security Class 2 for BS Fallback operation	Not Supported			
Non-seamless change to Security Class 2 for BS Fallback operation	Not Supported			
Provisioning of TM-SCK for fallback to Security Class 2 operation	Not Supported			
Change to Security Class 1 for BS Fallback operation	Not Supported			
Change of Security Class (other than for Fallback operation)				
Change between Security Class 3 and Security Class 3G	Not Supported			
Change between Security Class 2 and Security Class 3	Not Supported			
Change from Security Class 3G to Security Class 2	Not Supported			
Key Management for Secure Direct Mode Operation				
OTAR of DM-SCK	Not Supported			
Change of DM-SCK	Not Supported			
SI - Fully Witnessed Testing				
MS initiated Service Interaction	PASSED Spot 2_pass_of_7			
MS initiated Circuit Mode Call during another Circuit Mode Call	PASSED Spot 1_pass_of_5			
MS initiated Circuit Mode Call during Packet Mode Transfer	PASSED Spot 1_pass_of_2			
MS initiated Packet Mode Transfer during Circuit Mode Call	Not Supported			
SwMI initiated Service Interaction	PASSED Spot 2_pass_of_10			
SwMI initiated Circuit Mode Call during another Circuit Mode Call	PASSED Spot 2_pass_of_8			
SwMI initiated Circuit Mode Call during Packet Mode Transfer	Spot 0_pass_of_2			
SwMI initiated Packet Mode Transfer during Circuit Mode Call	Not Supported			

Call Waiting				
Call Waiting in Individual Call	Not Supported			
Call Waiting in Group Call	Not Supported			
ED - Fully Witnessed Testing				
Enable and temporary disable of an MS	PASSED Spot 2_pass_of_6			
Enable and temporary disable of an MS without authentication	Spot 0_pass_of_2			
Enable and temporary disable of an MS with authentication	PASSED Spot 1_pass_of_2			
Registration of a temporary disabled MS	PASSED Spot 1_pass_of_2			
Rejection of applicable invalid enable/disable requests	Not Supported			
Removable SIMs do not affect the subscriber or equipment that has been enabled/disabled	Not Supported			
Disabling of an MS during a call or while on the PDCH	Not Supported			
Permanent disable of an MS	Spot 0_pass_of_2			
Permanent disable of an MS with authentication	Spot 0_pass_of_1			
Permanently Disabled MS cannot send air interface signalling	Spot 0_pass_of_1			
TKD - Fully Witnessed Testing				
Delivery of Authentication Data	PASSED Spot 1_pass_of_2			
Authentication Key Delivery	Spot 0_pass_of_1			
ITSI Delivery	PASSED Complete 1_pass_of_1			
Delivery of SCK	Spot 0_pass_of_1			
SCK Delivery to SCK delivery	Spot 0_pass_of_1			
SCK Delivery to SwMI	Not Supported			
SCK Delivery to SCK loading	Not Supported			

Delivery method	PASSED Spot 1_pass_of_3			
Plain text on physical media	PASSED Spot 1_pass_of_3			
Encrypted text on physical media	Not Supported			
Electronic transfer	Not Supported			
CAD - Fully Witnessed Testing				
Call Authorised by Dispatcher - Compliant	PASSED Spot 2_pass_of_10			
No voice call with dispatcher	PASSED Spot 2_pass_of_10			
Voice call with dispatcher	Not Supported			
Call Authorised by Dispatcher - Tolerant	Complete			
No voice call with dispatcher	Complete			
Individual voice call with dispatcher	Not Supported			
Group voice call with dispatcher	Not Supported			
LIP - Fully Witnessed Testing				
Location Information Protocol	PASSED Spot 4_pass_of_17			
LIP over SDS	PASSED Spot 2_pass_of_9			
LIP over Packet Data	Not Supported			
Time based reporting	PASSED Spot 2_pass_of_6			
Distance based reporting - NOT TESTABLE	Not Supported			
Reporting using Long reports	Spot 0_pass_of_1			
Reporting Enable & Disable	PASSED Spot 1_pass_of_2			
Temporary reporting control	Spot 0_pass_of_1			
Trigger modification	PASSED Complete 1_pass_of_1			

Immediate Location Reporting	Spot 0_pass_of_1			
Reporting Lifetimes	Not Supported			
Error Reporting	Spot 0_pass_of_2			
Positioning on Individual Call Setup	Not Supported			