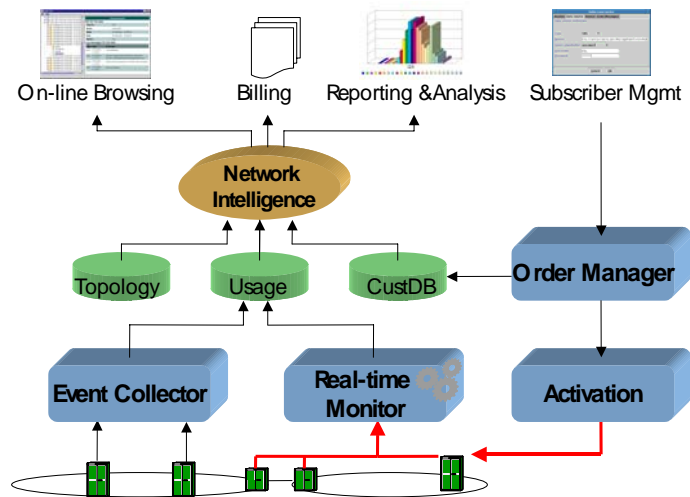


TETRA Network Information Base

TETRA Network Information Base is a network data management solution for PMR network operators and user organisations. The TNIB collects usage information from various network sources (e.g. CDRs, service platforms etc) and offers reporting, analysis and billing based on this data. In addition, TNIB activates subscribers in the network, and ensures the validity of the network data. TNIB consists of multiple product features that can be purchased also separately.



Efficient processing and analysis of usage information is a significant advantage in service development, business analysis and network dimensioning. These factors enable the operator to achieve major cost savings, and to build more productive and competitive service offering to customers.

Usage information can be retrieved from any network elements (TETRA exchanges, operative applications, WAP gateways, etc), and correlated into a single view of network intelligence. This information can be used for e.g.

- Subscriber / organisation reporting & Billing
- Network Performance / QoS monitoring
- Network optimisation & capacity planning
- Cost allocation
- Problem solving
- Terminal device comparison

The TETRA Network Information Base is a software solution by Mentura Ltd that automates management of usage data (collection, validation, consolidation, distribution). The system can be extended with the Subscriber Data Center component to enable provisioning and user data monitoring. The system components are available as separate products or an integrated solution.

Benefits:

- Automated and reliable usage data management removes processing errors
- Speeds up reporting, network analysis and service development
- Rapid subscriber data recovery in case of network upgrades or database crash.

Technical Data:

Supported platforms:
Solaris/Oracle
Linux/MySQL
Windows 2003 Server

About Mentura Group

Mentura Group Ltd is a telecommunications software and consultancy company specialising in operator service management. Our solutions include intelligent service gateways and network data management platforms.

Mentura Group is a member of the TETRA Association.

Mentura Group is an EADS TWISP Partner

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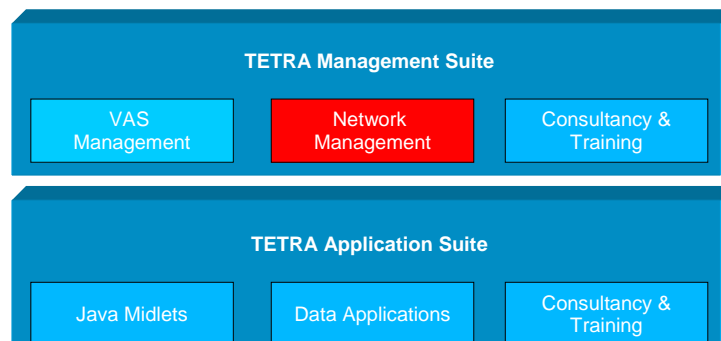


TETRA Management Suite

MENTURA TETRA Data Management Feature Matrix

	TNIB Lite*	TNIB Base License	TNIB Mediation	TNIB Reporter	TNIB Billing	TNIB User Database	Mass Modification
Function / Product Option							
Mediation	Required						
Configurable usage data management process	<input type="checkbox"/>		<input type="checkbox"/>				
Process scheduling and management	<input type="checkbox"/>		<input type="checkbox"/>				
Process log with customisable views	<input type="checkbox"/>		<input type="checkbox"/>				
On-line process control	<input type="checkbox"/>		<input type="checkbox"/>				
Automatic restart and recovery of processing	<input type="checkbox"/>		<input type="checkbox"/>				
Customisable alarms			<input type="checkbox"/>				
Alarm delivery via e-mail			<input type="checkbox"/>				
Alarm delivery via SDS / SMS			<input type="checkbox"/>				
Alarm delivery to NMS			<input type="checkbox"/>				
Guaranteed delivery of data files	<input type="checkbox"/>		<input type="checkbox"/>				
Data gap detection	<input type="checkbox"/>		<input type="checkbox"/>				
Data filtering and enhancement	<input type="checkbox"/>		<input type="checkbox"/>				
CDR Combining	<input type="checkbox"/>		<input type="checkbox"/>				
Automatic data collection according to network vendor specification*	<input type="checkbox"/>		<input type="checkbox"/>				
<i>Requires a Data Collection Module for the supported network element</i>	<input type="checkbox"/>		<input type="checkbox"/>				
Data file back-ups and compression	<input type="checkbox"/>		<input type="checkbox"/>				
Data conversion to target format(s)*	<input type="checkbox"/>		<input type="checkbox"/>				
<i>Requires a Data Converter Module for the supported network element</i>	<input type="checkbox"/>		<input type="checkbox"/>				
Open CDR Database	<input type="checkbox"/>		<input type="checkbox"/>				
Reporting	Required		Required				
Reporting Data Mart	<input type="checkbox"/>			<input type="checkbox"/>			
Custom Reports	<input type="checkbox"/>			<input type="checkbox"/>			
Report Designer Tools	<input type="checkbox"/>			<input type="checkbox"/>			
Reporting Server	<input type="checkbox"/>			<input type="checkbox"/>			
Report delivery via WWW	<input type="checkbox"/>			<input type="checkbox"/>			
Automated Report delivery via E-mail	<input type="checkbox"/>			<input type="checkbox"/>			
Manual report generation	<input type="checkbox"/>			<input type="checkbox"/>			
Billing	Required		Required		Required		
Rate plan management					<input type="checkbox"/>		
Graphical Price Model Configurator					<input type="checkbox"/>		
Scheduled Bill reports					<input type="checkbox"/>		
Manual bill reports					<input type="checkbox"/>		
Custom reports					<input type="checkbox"/>		
Customisable output for external invoicing systems					<input type="checkbox"/>		
Provisioning	Required						
Terminal Information Management						<input type="checkbox"/>	
Subscription Information Management						<input type="checkbox"/>	
Network parameter data management						<input type="checkbox"/>	
Radio data provisioning to network						<input type="checkbox"/>	
Network Parameter Templates						<input type="checkbox"/>	
Group area templates						<input type="checkbox"/>	
Browser based UI						<input type="checkbox"/>	
Subscriber event browsing and search						<input type="checkbox"/>	
Command generation and event data from network elements*						<input type="checkbox"/>	
<i>Requires a Data Interface Server module for the supported network element</i>						<input type="checkbox"/>	
Mass Modification	Required					Required	
Subscriber Data Backup from DXT							<input type="checkbox"/>
Subscriber Data Refresh from DXT							<input type="checkbox"/>
Data mass synchronisation from database to DXT							<input type="checkbox"/>
Scheduled refresh of network data							<input type="checkbox"/>
Mass edit subscriber parameters							<input type="checkbox"/>
Mass move subscribers from organisation block to another							<input type="checkbox"/>
Hardware Platform							
SUN / Solaris		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intel / Linux	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intel / Windows 2003 Server*	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>			
<i>EADS Data Interface modules and reporting server Database</i>							

The TETRA Network Information Base is part of Mentura Group's TETRA Management Suite and comes with full service - including consultancy, training and support.



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