



The Prism GSM SIM range SIMetrix is an ETSI GSM standards based SIM for mobile telecommunications authentication and VAS services provision for mobile subscribers. Prism supports the ETSI 3GPP 3G UICC/USIM specification under the uSIMetrix SIM brand offering, and the aSIMetrix brand for PKI capability. The 3G UICC/USIM has been implemented on Prism's new generation uSIM/SIM OS framework.

SIMetrix, aSIMetrix and uSIMetrix offer multiple platform options in the 64k E²PROM range each containing an integrated SmartTrust WIB browser for VAS data services provision. Functionality across the SIM and USIM range is compatible to 32k and 128k/256k SIM/uSIM products from Prism.

Other browser options are also available.

In line with Prism's niche focus on secure electronic transactions, Prism SIM/uSIMs are ideally suited to secure VAS applications such as mobile commerce and wireless payment. In addition, the Prism WIB has a number of WIB VAS support enhancements, implemented as plug-ins. These enhancements are geared specifically at offering operators increased flexibility with regards to implementing VAS, and hence a better end user experience. The WIB plug-ins are covered briefly below. Unique to Prism SIMs is integrated support for Virtual Top-Up functionality for pre-paid markets.

Functionality

Feature / Function	A	B	C	D	E
Platform	A	B	C	D	E
E ² PROM	68k	68k	64k	72k	72k
2G SIM: GSM11.11/11.14, GSM03.40/03.48, RFM03.48	✓	✓	✓	✓	✓
3G USIM: 3GPP UICC TS102.221/223 3GPP UICC TS31.101 3GPP USIM TS31.102/TS51.011 3GPP USAT TS31.111 3GPP Security TS23.048 3GPP Security USIM TS33.102	✓		✓	✓	
3GPP USAT browser			Optional		
SmartTrust WIB 1.3	✓		✓	✓	
SmartTrust WIB 1.2		✓			✓
China OTA2+/Monternet Services/Mzone		✓			
JavaCard@: JCRE 2.1.1 JVM 2.1.1 JCAPI 2.1.1 Global Platform 2.0.1 3GPP 03.19 SIMalliance Interoperability Stepping Stones SmartTrust WIB extension API	✓		✓	✓	
Prism VAS plug-in library	✓	✓	Subset	✓	✓
Prism Transaction VAS plug-in library	✓	✓	✓	✓	✓
Prism VTU (Virtual Top-Up) plug-in	✓		✓	✓	
Prism VTU subscriber application	✓		✓	✓	
SmartTrust plug-ins	✓	✓	✓	✓	✓
PKI/WIM					
Milenage/COMP128-1/2/3,XOR	✓	excl. Milenage	✓	✓	excl. Milenage
Availability	Now	Now	Now	Now	Now

Note: See Prism SIM roadmap for a comprehensive list of new SIM platforms.
JavaCard is a registered trademark of Sun Microsystems Inc.
Different configurations may exist on the same platform.





In general the following functions are available for Prism SIM and uSIM platforms.

Additional SIM VAS Utilities Functions

Function	Includes the following Features
USIM multi-phonebook	This capability is only present on uSIMs but supported on 2G and 3G handsets
Dual Phonebook for SIM	[2G] Multiple ADN, SMS inbox= creation, management, public/private
Extended Phonebook for SIM	[2G] Expanded ADN records on SIM – name, mobile, office, fax, e-mail
Group SMS	Create group, manage group, select, build/send
Email RX/TX/Store facility	Email send receive (requires backend setup)
Browse ADNs	Search ADNs/ select etc.
SMS modify	Modify SMS parameters on the fly, variable destination address + Call setup
Get ICCID	Get ICCID
ALU, Edit Menu	Addition/Subtraction, Edit on the fly from bytecode
Table Functions	Dynamic/Navigate/Hierarchical tables/Linked lists
	Multi column/row matrix
	Table management/look-up record
Persistent Data store/view	Create/Update/Store/View data items persistent display/Repeat text display
Object Version	Specifies and managed version numbers of SIM objects/tables
Memory Defrag	Automatic/manual
Code/Patch/Plug-in update	OTA update of mask code (plug-in, patch, proprietary network algorithm)
Auth Algorithms update	COM128-1 to 2/3 managed switch – also on dual IMSI switch
Dual IMSI	Dual IMSI controlled switchover
Convert Phone Number	BCD-ACSII display
Anti Cloning	Monitors successive authentication retry counts/ RUN GSM Algorithm control
Strong KI	Strong KI key derivatives (pre personalisation)
Auto refresh	Updated menu as soon as ME sends status
Automatic file updates	Automatic operation to protect against card tear during transaction processing
Custom plug-ins	Customer specific plug-in development can be accommodated at mask development time, or at pre/post-issuance
Generic WIB proprietary event	Trigger script on receipt of configurable non-GSM03.48 SMS