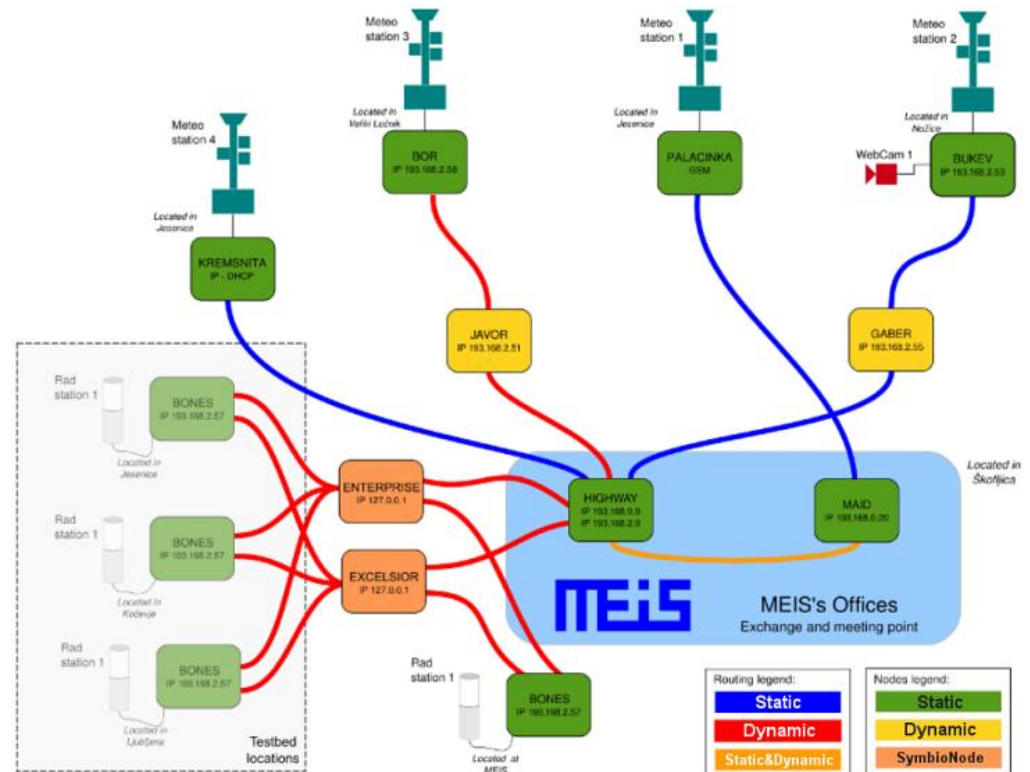
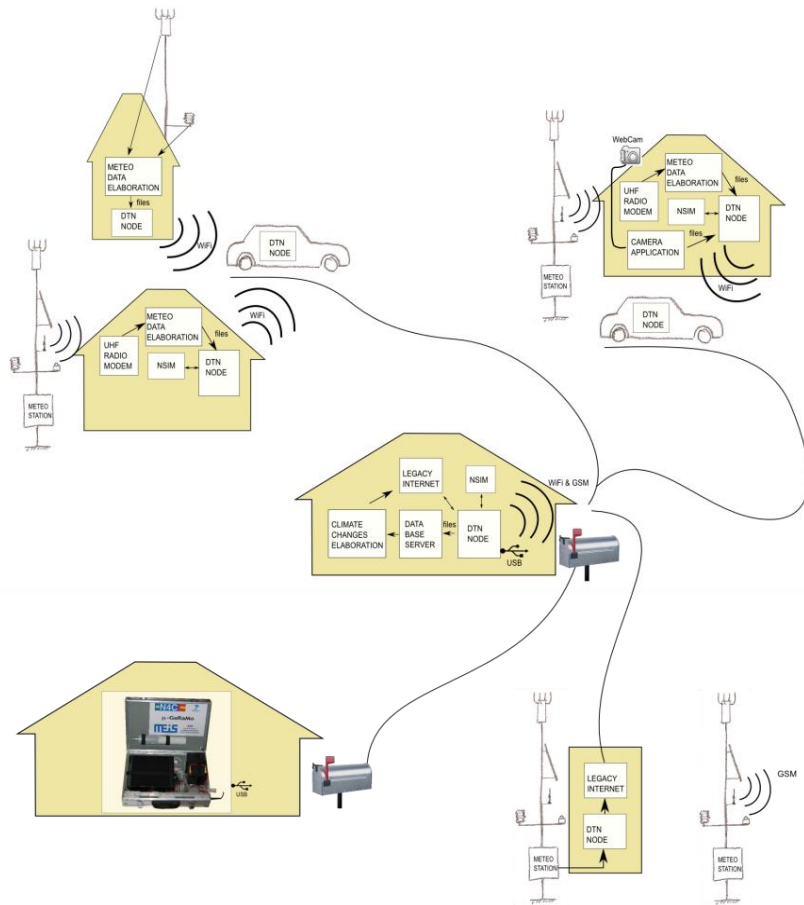


Summer tests 2010 Slovenia

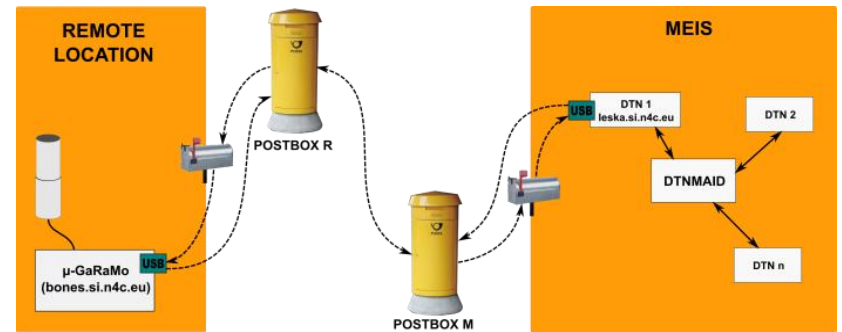
Test characteristics	
session	Summer 3 / Slovenia
time	April-September 2010
location	Škofljica, Nožice, Veliki Ločnik, Jesenice, Dolenja vas, Ljubljana
on-site participants	MEIS, volunteering end users
objectives	Test DTN2 reference implementation in meteorological applications, test hardware improvements, introduce and demonstrate new testbed components. Focus: radiological and meteorological data acquisition, <i>μ-GaRaMo</i> radiological station, <i>SymbioNode</i> passive DTN node, Web camera image acquisition, upgraded power management system for mobile nodes, DTN2 reference implementation.
equipment	14 nodes: 4 mobile, 10 stationary (x86-based / Windows XP, XScale-based Cambria SBCs / OpenWrt, Atom-based / ArchLinux, passive SymbioNodes), 4 meteorological stations, 1 portable radiological station
physical connections	data link: ad-hoc mode WiFi, Ethernet, USB; mobile nodes transported by cars, SymbioNodes sent by traditional postal service
DTN software	DTN2, DTN/L, DFTN, DTN/M
applications tested	radiological and meteorological data acquisition, Web camera image acquisition
observations planned	statistics and reliability of data transfers, logs of connections, routes, messages, etc.; performance of the <i>μ-GaRaMo</i> station and SymbioNodes; voltage, current, and LED signalling of a micro UPS / battery backup system; potential problems
references	S.Vrbnic, B.Grašič, D.Popović, P.Mlakar, M.Z.Božnar: M8.5: Summer 3 interconnected tests report



Main topology



μ -GaRaMo topology



Devices used



Meteorological station with a DTN router



Meteorological station with a DTN router – exterior part



Data mule in car



μ-GaRaMo radiological station with SymbioNode node USB-key connectivity



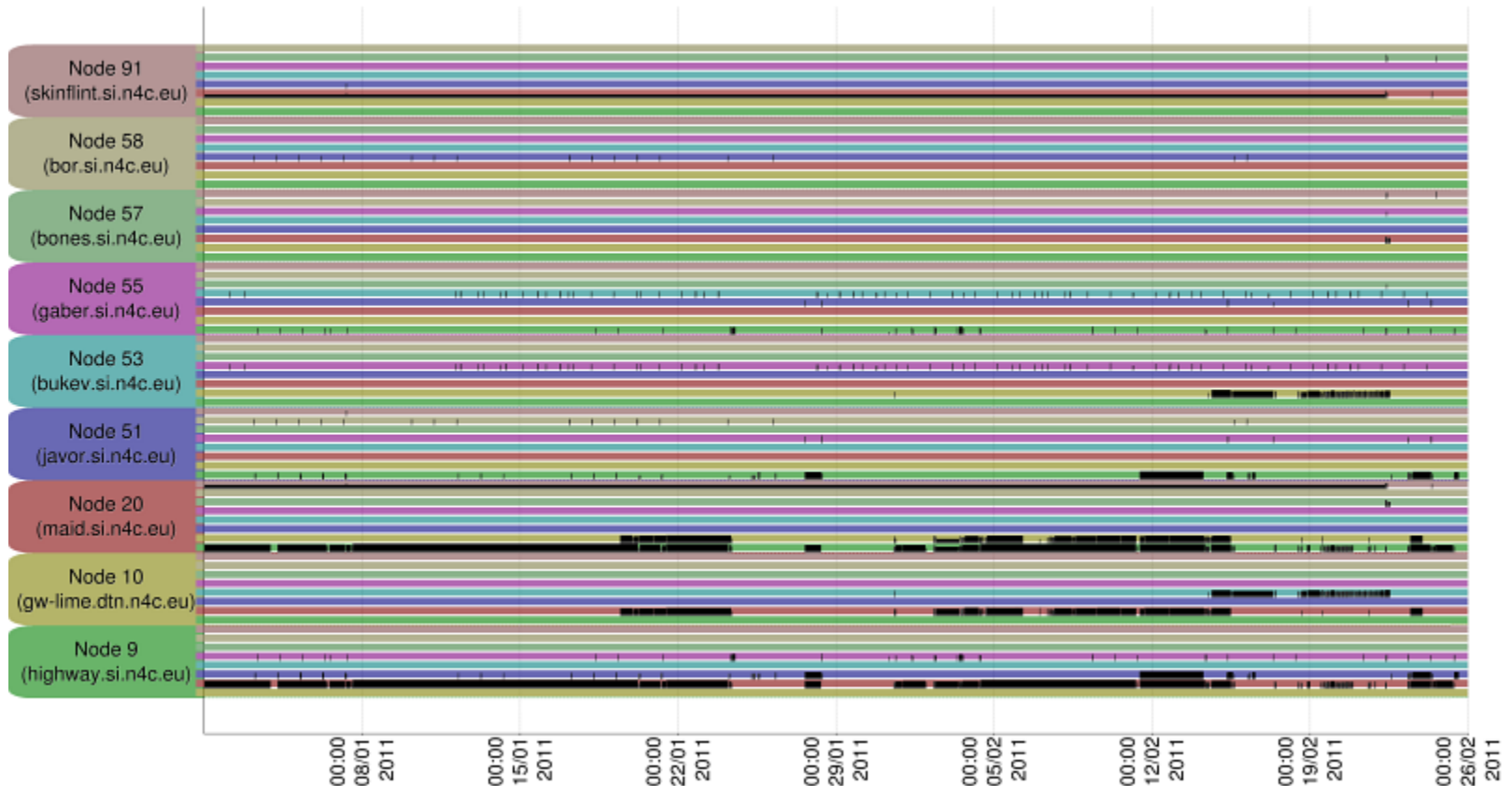
Webcam picture (wildlife observation)



Meteorological station "Pustice"

Traffic evaluation

DTN Traffic - SI Winter Test (1.1.2011 - 26.2.2011)



$2^{30}B$ (1GB) $2^{20}B$ (1MB) $2^{10}B$ (1KB)

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