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**AirVantage ReadyAgent 8 Devtree\_v2 Integration Guide**

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# ReadyAgent8 DevTree\_v2 implementation

This document provides a guide to integrate DevTree\_v2 adapter to Ready Agent 8.

Dev Tree v2 adapter act as an interface between Ready Agent and QMI SDK DevTree\_v2 library.

DevTree\_V2 adaptor

DevTree\_V2 Library

SLQS

Ready Agent 8

# Before Compilation

1. Check out Ready Agent 8 source code

git clone <http://git.airvantage.sierrawireless.local/anyware-platform-embedded/readyagent.git/>

cd readyagent

git submodule update –init

git checkout ReadyAgent-R8.0

1. Check out DevTree\_v2 adapter source code

svn co https://cnhkg-svn01/svn/Linux\_SDK/Linux\_QMI\_SDK/slqs3.x/trunk/tools/Air\_Vantage\_Dev\_Tree\_v2\_adaptor

1. Create non-free/porting/devtree\_v2 folder and copy files of Air\_Vantage\_Dev\_Tree\_v2\_adapter to devtree\_v2 folder.
2. Modifiy CMakeLists.txt located at non-free and porting folder to include devtreev2 subfolder as below

add\_subdirectory (porting)

add\_subdirectory (devtree\_v2)

# Compilation

1. Run below line outside from ReadyAgent source folder

ReadyAgenSource/bin/build.sh

1. build.default folder will be created after build completed, run below lines to build DevTree\_v2 adaptor

cd build.default

make devtree2\_install

1. copy slqs binary and library to ReadyAgent8

cp slqssdk build.default/runtime/bin

cp libdevtree.so.2 build.default/runtime/lib

# Execution

1. Start ReadyAgent

cd build.default/runtime

sudo ./start.sh

(sudo is necessary because DevTree\_v2 library need to access modem device node)

logs:

2013-04-26 01:20:13 GENERAL-INFO: \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

2013-04-26 01:20:13 GENERAL-INFO: Starting ReadyAgent ...

2013-04-26 01:20:13 GENERAL-INFO: ReadyAgent: 9.0-DEV - Build: 387672c

2013-04-26 01:20:13 GENERAL-INFO: Lua VM: Lua 5.1.4 (+meta pairs/ipairs) (+patch-lua-5.1.4-3)

2013-04-26 01:20:13 GENERAL-INFO: System: Linux stanley-ubuntu 3.4.25-030425-generic #201301111332 SMP Fri Jan 11 18:43:25 UTC 2013 i686

2013-04-26 01:20:13 GENERAL-INFO: \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

2013-04-26 01:20:13 GENERAL-INFO: Module [AssetConnector] initialized

2013-04-26 01:20:13 SHELL-INFO: Binding a shell server at address ?localhost, port 2000

2013-04-26 01:20:13 GENERAL-INFO: Module [Lua Shell] initialized

2013-04-26 01:20:13 GENERAL-INFO: Module [DummyNetman] initialized

2013-04-26 01:20:13 GENERAL-INFO: Module [Lua RPC] initialized

2013-04-26 01:20:13 GENERAL-INFO: Module [ServerConnector] initialized

2013-04-26 01:20:13 GENERAL-INFO: Module [DataManagement] initialized

2013-04-26 01:20:13 ASSCON-INFO: Connection received from asset [table: 0x9b54600] at '<local ipc=table: 0x9bcfd98>:0'

2013-04-26 01:20:13 ASSCON-INFO: Asset registered, name="@sys", id=table: 0x9b54600.

2013-04-26 01:20:13 GENERAL-INFO: Module [DeviceManagement] initialized

2013-04-26 01:20:13 GENERAL-INFO: Module [ApplicationContainer] initialized

2013-04-26 01:20:13 GENERAL-INFO: Module [Update] initialized

2013-04-26 01:20:13 GENERAL-INFO: ReadyAgent successfully initialized

# Test

* 1. Use Lua shell to test DevTree\_v2 adapter

$ telnet localhost 2000

Trying ::1...

Trying 127.0.0.1...

Connected to localhost.

Escape character is '^]'.

Lua interactive shell

> tm=require'agent.treemgr'

> tm.get("system.mdm.global\_id")

> id=tm.get("system.mdm.global\_id")

> print(id)

012626000713915

log:

2013-04-26 01:41:10 GENERAL-INFO: \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

2013-04-26 01:41:10 GENERAL-INFO: Starting ReadyAgent ...

2013-04-26 01:41:10 GENERAL-INFO: ReadyAgent: 9.0-DEV - Build: 387672c

2013-04-26 01:41:10 GENERAL-INFO: Lua VM: Lua 5.1.4 (+meta pairs/ipairs) (+patch-lua-5.1.4-3)

2013-04-26 01:41:10 GENERAL-INFO: System: Linux stanley-ubuntu 3.4.25-030425-generic #201301111332 SMP Fri Jan 11 18:43:25 UTC 2013 i686

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2013-04-26 01:41:10 GENERAL-INFO: Module [DummyNetman] initialized

2013-04-26 01:41:10 GENERAL-INFO: Module [Lua RPC] initialized

2013-04-26 01:41:10 GENERAL-INFO: Module [ServerConnector] initialized

2013-04-26 01:41:10 GENERAL-INFO: Module [DataManagement] initialized

2013-04-26 01:41:10 ASSCON-INFO: Connection received from asset [table: 0x8ded2c0] at '<local ipc=table: 0x8e5ad58>:0'

2013-04-26 01:41:10 ASSCON-INFO: Asset registered, name="@sys", id=table: 0x8ded2c0.

2013-04-26 01:41:10 GENERAL-INFO: Module [DeviceManagement] initialized

2013-04-26 01:41:10 GENERAL-INFO: Module [ApplicationContainer] initialized

2013-04-26 01:41:10 GENERAL-INFO: Module [Update] initialized

2013-04-26 01:41:10 GENERAL-INFO: ReadyAgent successfully initialized

2013-04-26 01:41:13 SHELL-INFO: Shell connection from client (127.0.0.1)

#devices: 1

deviceNode: /dev/qcqmi1

deviceKey: 00000000000000

Running with device in ready mode

---- FOUND libdevtree.so.2 ----

---- GetVar ---- 1 -> 0

---- Resolving 'dt2\_GetDeviceId'... FOUND (0xb744c312)

Got string value '012626000713915'.