

Part Two: StratML Toolkit & StratML Cloud

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Introduction

StratML is an XML language used to capture strategy information of an organization in an open, standard, machine-readable format. The vision of StratML is to help lead to “***A worldwide web of intentions, stakeholders, and results.***” This report is a series of diagrams that illustrate how StratML can be integrated into an existing systems architecture.

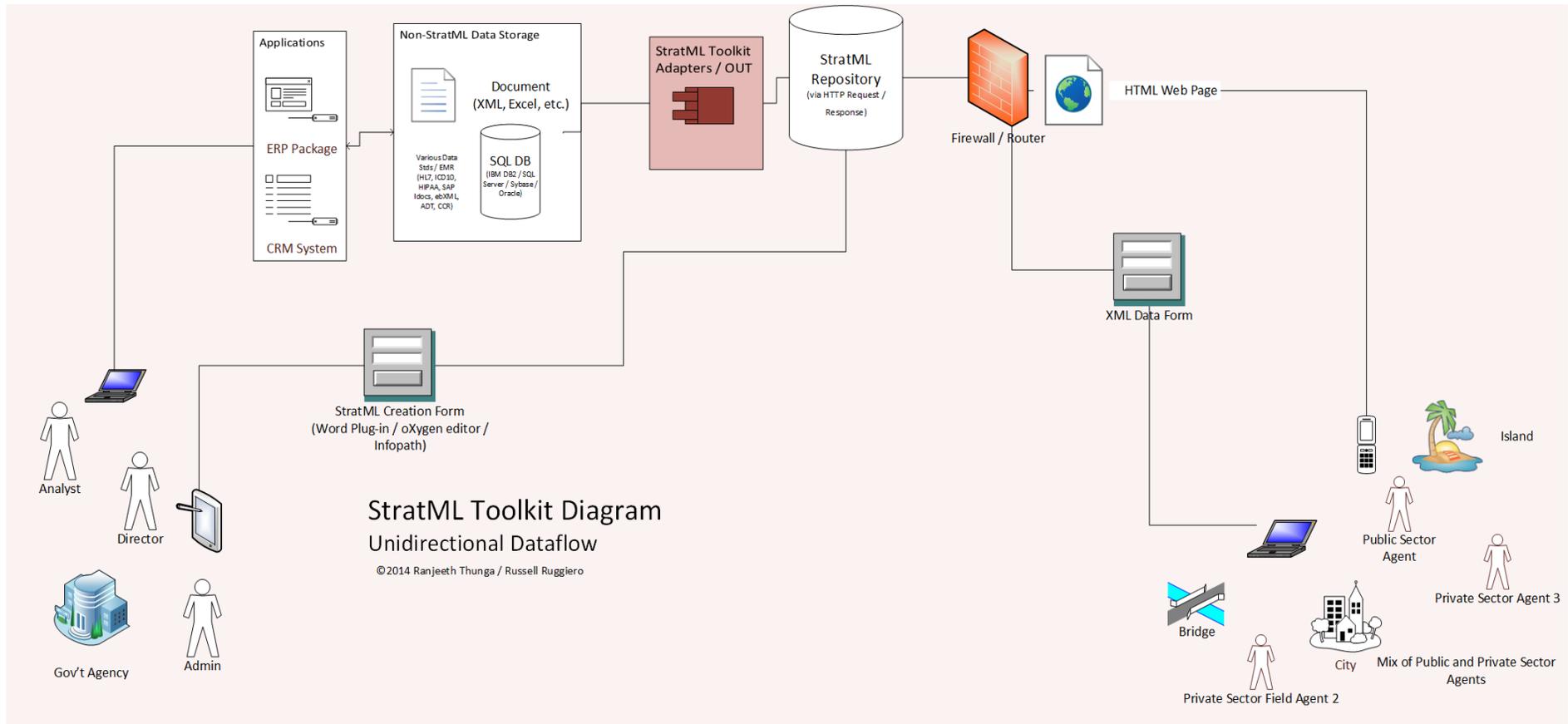
The report should serve as a visual cue and starting-point for systems architects. It serves as a follow-up to the previous report by Russell Ruggiero entitled “Part One: StratML Toolkit & StratML Cloud” (see References), which explains in detail where and how StratML can be implemented in a variety of scenarios.

Foundation / Summary

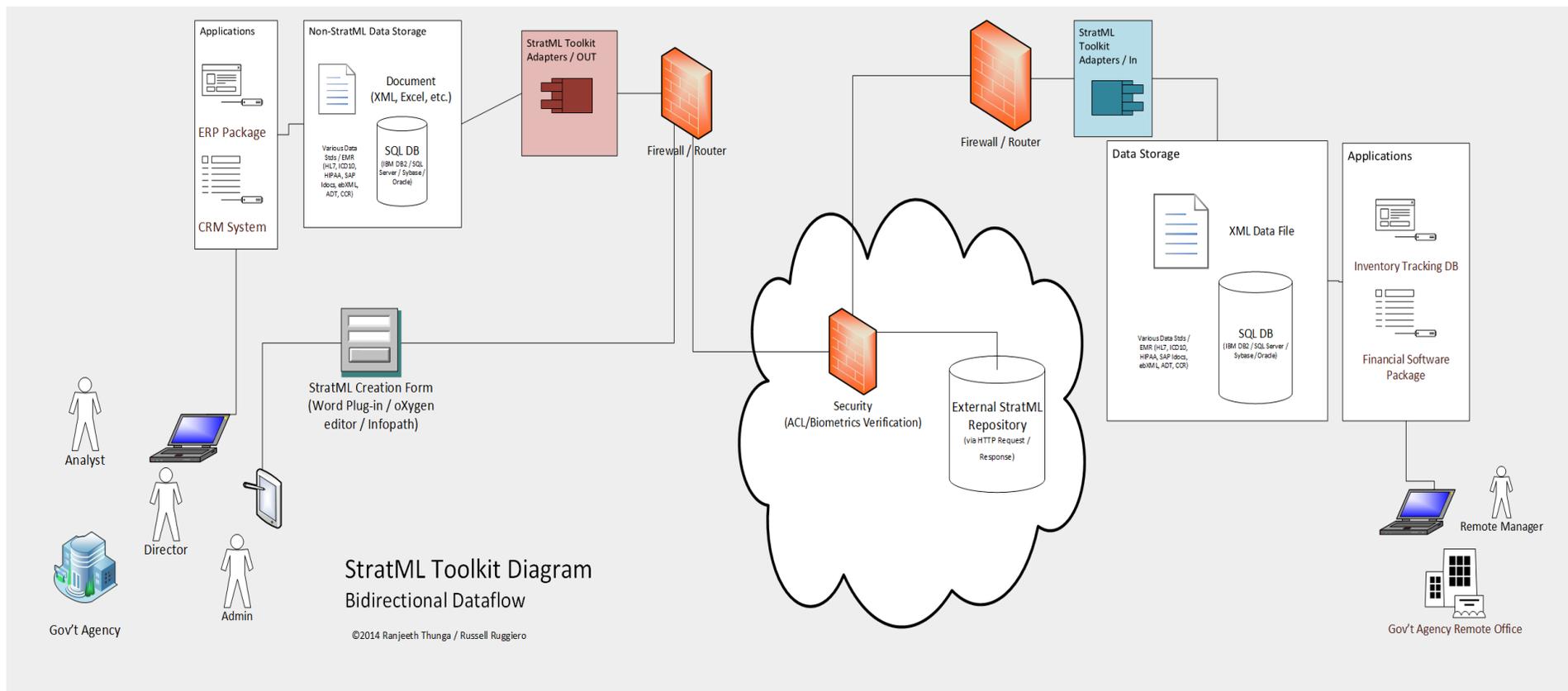
There are numerous benefits to having an open, standard machine-readable format like StratML for capturing organizational strategy information, in both the private and public sector. These include clarified communication between stakeholders, translation between disparate data formats, improved coordination between agencies, and discovery of services in an open marketplace. We expound upon these in the report co-written with Russell Ruggiero: “StratML: Public and Private Sector Uses” (see References).

In this paper, we’ll focus on how to implement StratML toolkit adaptors in a systems environment, through a series of diagrams. These depictions can bring clarity to the minds of those considering implementing StratML on how to enable StratML in their workflow. Four diagrams are presented below.

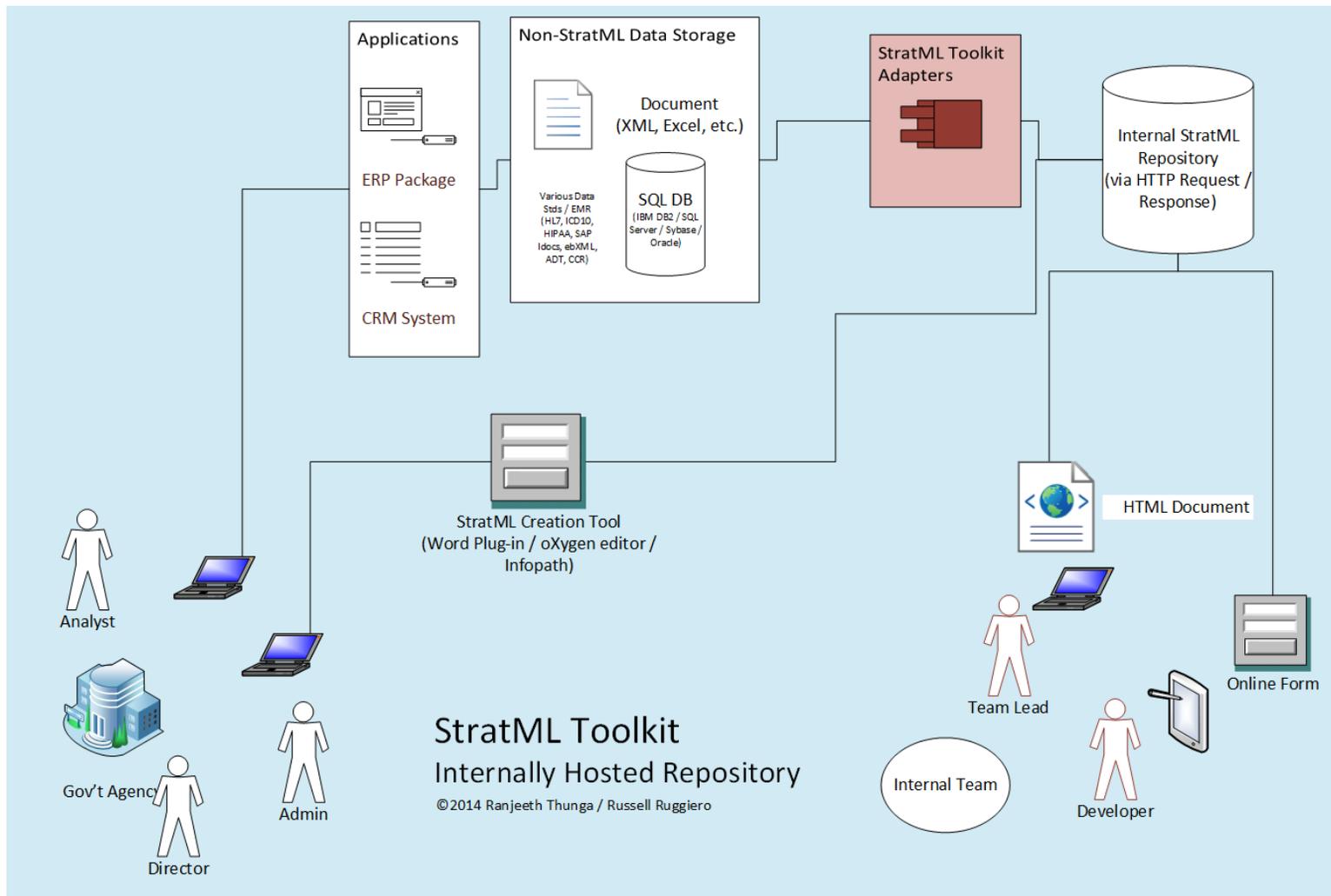
Diagrams



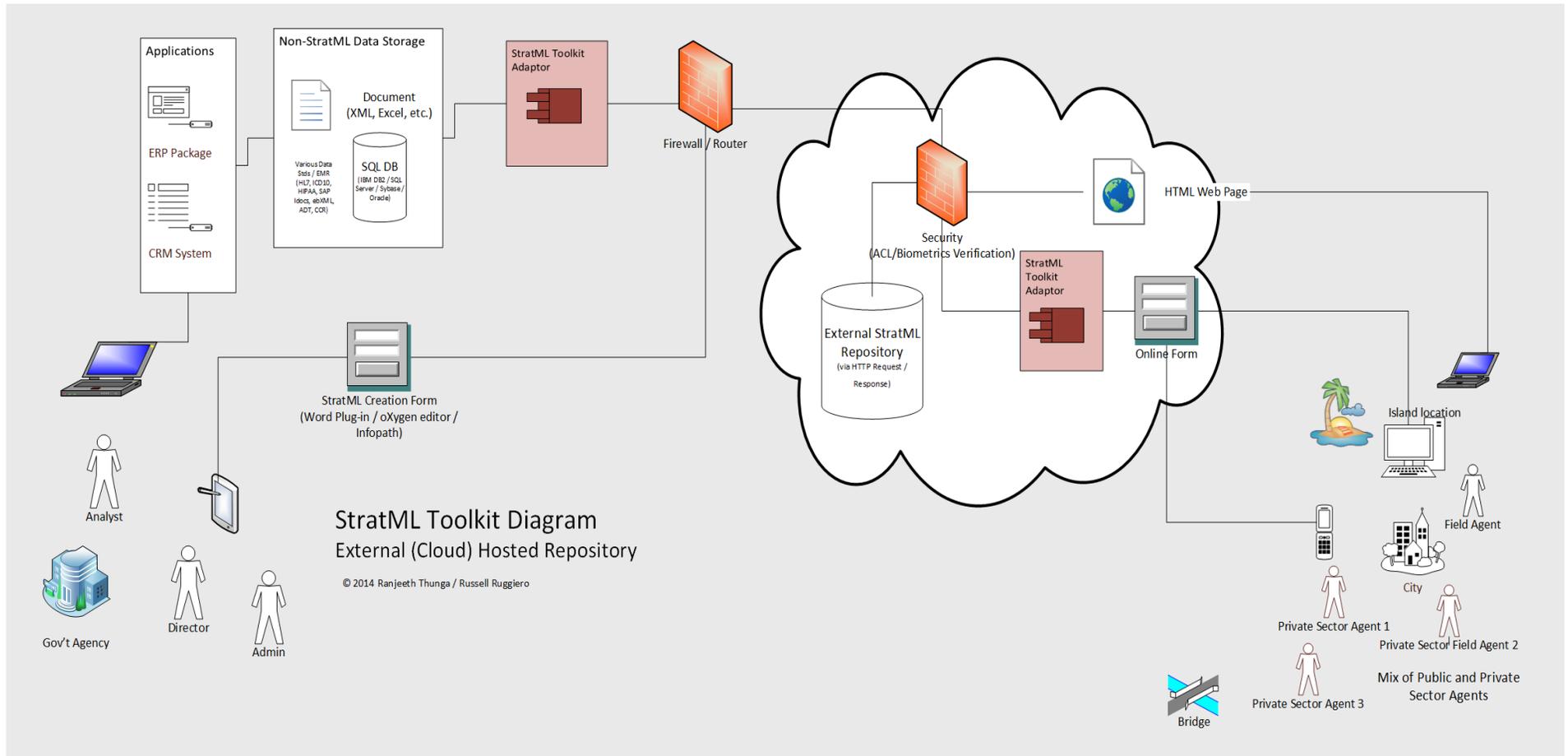
Unidirectional Information Flow: The first diagram depicts a flow of data from persons in an agency to the outside world. The data in their environment is translated into StratML format from their current documents via a StratML Toolkit Adaptor. Their current infrastructure, including the applications they use, and the databases they have, are completely intact.



Bidirectional Information Flow: The second diagram depicts a flow of information from an agency to a remote office, via the cloud. It follows a similar workflow as the earlier diagram. However, here we depict *another* StratML Toolkit Adaptor (inbound) that translates the StratML data into the remote office's preexisting data format, through its preexisting applications.



Internal StratML Repository: This diagram depicts an internally hosted StratML repository which hosts the strategic agreements between StratML partners within the same environment. Security measures and strategic agreements are maintained by the agency itself.



External (Cloud) StratML Repository: This diagram depicts a cloud hosted StratML repository, which contains strategic agreements between StratML partners and references to StratML files hosted on the Web. Security measures and strategic agreements are maintained by an independent party.

References

StratML

<http://xml.fido.gov/stratml/>

DNAOS-powered StratML Portal

<http://stratml.hyperbase.com>

StratML: Private & Public Sector Uses report by Ranjeeth K. Thunga & R. Russell Ruggiero

<http://xml.fido.gov/stratml/references/StratML-PrivatePublicSectorUses.pdf>

Part One: StratML Toolkit & StratML Cloud by R. Russell Ruggiero

<http://xml.fido.gov/stratml/references/StratMLToolkitCloud.pdf>

AIIM

<http://www.aiim.org/>

DHS

<http://www.dhs.gov/>

DOD

<http://www.defense.gov/>

EPA

<http://www.epa.gov/>

EPA Office 9 (Pacific Southwest)

<http://www2.epa.gov/aboutepa/epa-region-9-pacific-southwest>

EPA Emergencies & Spills

<http://www.epa.gov/region9/cleanup/emergency/>

EPA Region 9 Oil Program Contacts

<http://www.epa.gov/region9/disaster/oilpp/index.html>

EPA Oil Spills

<http://www.epa.gov/oilspill/>

IBM DB2

<http://www-01.ibm.com/software/data/db2/>

Microsoft SQL Server 2012

<https://www.microsoft.com/en-us/sqlserver/default.aspx>

OASIS

<https://www.oasis-open.org/>

Oracle Database 12c

<http://www.oracle.com/us/corporate/features/database-12c/index.html>

Sybase Adaptive Server Enterprise

<http://www.sybase.com/products/databasemanagement/adaptiveserverenterprise>

W3C

<http://www.w3.org/>

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Date: March 11th, 2014

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