

RAD Server Projeto Exemplo Parte #1

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AGENDA

- Class Helpers e Record Helpers
- TCustomJSONDataSetAdapter
- DataSet JSON Class Helper
- Demos

CLASS HELPERS E RECORD HELPERS

- http://docwiki.embarcadero.com/RADStudio/Tokyo/en/Class and Record Helpers (Delphi)
- https://www.thoughtco.com/understanding-delphi-class-and-record-helpers-1058281
- https://www.thoughtco.com/record-helpers-for-sets-1058204
- https://theroadtodelphi.com/2012/09/05/exploring-delphi-xe3-record-helpers-for-simpletypes-system-sysutils-tstringhelper/
- https://github.com/colinj/TDateTimeHelper

```
type

identifierName = class|record helper [(ancestor list)] for TypeIdentifierName

memberList

end;
```

CLASS HELPERS E RECORD HELPERS

- System.SysUtils TStringHelper = record helper for Strings
- System.Classes TUInt32Helper = record helper for UInt32
- System.SyncObjs TCriticalSectionHelper = record helper for TRTLCriticalSection
- System.SyncObjs TConditionVariableHelper = record helper for TRTLConditionVariable
- System.Mac.CFUtils CFGregorianDateHelper = record helper for CFGregorianDate
- System.SysUtils TGuidHelper = record helper for TGUID
- System TSingleHelper = record helper for Single
- System TDoubleHelper = record helper for Double
- System TExtendedHelper = record helper for Extended

TCustomJSONDataSetAdapter

http://docwiki.embarcadero.com/Libraries/Tokyo/en/REST.Re sponse.Adapter.TCustomJSONDataSetAdapter

```
procedure TDataSetJSONHelper.JsonToDataset(aJSON: TJSONObject; aDataset: TDataSet);
var
    vConv : TCustomJSONDataSetAdapter;
begin
    vConv := TCustomJSONDataSetAdapter.Create(Nil);
try
    vConv.Dataset := aDataset;
    vConv.UpdateDataSet(aJSON);
finally
    vConv.Free;
end;
end;
```

DATASET JSON CLASS HELPER

- Objetivos
 - Exportar DataSet como JSON
 - Insert / Update a partir de um JSON

```
TDataSetJSONHelper = class helper for TDataSet
private
   procedure JsonToDataset(aJSON: TJSONObject; aDataset: TDataSet);
public
   function AsJSONArray: string;
   function AsJSONStream: TStream;
   procedure InsertFromJSON(aJSON: TJSONObject);
   procedure UpdateFromJSON(aJSON: TJSONObject);
end;
```

REMOS

RECURSOS ADICIONAIS – VÍDEOS/WEBINARS

- RAD Server e Beacon Fence no Saitobaru Museum
 - https://www.youtube.com/watch?v=fdOt9-K8oTQ
- RAD Server, The Perfect Back-end for your Apps
 - https://youtu.be/HY0JRJPvjsU
- Beyond The Beacon Fence
 - https://youtu.be/1 cWnDmvxJk
- Beacon Fencing con RAD Studio, Delphi y C++Builder
 - https://youtu.be/bJG4UEjuMeM
- ThingConnect Devices
 - https://youtu.be/tQlYAlvfpPQ

RECURSOS ADICIONAIS – VÍDEOS/WEBINARS

- loT em Ação Construindo uma moderna aplicação para hospitais ou clinicas
 - https://youtu.be/rC97QGq3IWo
- RAD Server Webinars
 - https://goo.gl/oPujRg
- Mais sobre RAD Server
 - https://www.youtube.com/results?search_query=rad+server+embarca_dero

RECURSOS ADICIONAIS – CONTEÚDO TÉCNICO

- REST Endpoint Publishing: https://goo.gl/H8yM9l
- IoT Edgeware: https://goo.gl/r02528
- ThingConnect IoT Device Components
 - http://docwiki.embarcadero.com/RADStudio/Berlin/en/ThingPoints Overview
 - http://docwiki.embarcadero.com/IoT/en/ThingConnect
 - http://docwiki.embarcadero.com/IoT/en/ThingConnect Devices
- Para cada componente IoT instalado através do GetIt, você pode encontrar exemplos navegando para C:\Users\Public\Documents\Embarcadero\Studio\19.0\Samples\Internet of Things\Object Pascal\Thing Connect

RECURSOS ADICIONAIS – CONTEÚDO TÉCNICO

- Location Tracking
 - http://docwiki.embarcadero.com/loT/en/BeaconFence
 - http://docwiki.embarcadero.com/IoT/en/Using BeaconFence
 - https://community.embarcadero.com/blogs/entry/beaconfence-andbeacons-tips-from-our-development-team
- Depois de instalar o pacote do BeaconFence através do Getlt, você pode encontrar exemplos de projetos aqui:
 C:\Users\Public\Documents\ Embarcadero\Studio\19.0\Samples\Internet of Things\Object Pascal\Beacon Fence

OBRIGADO!

Perguntas?

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